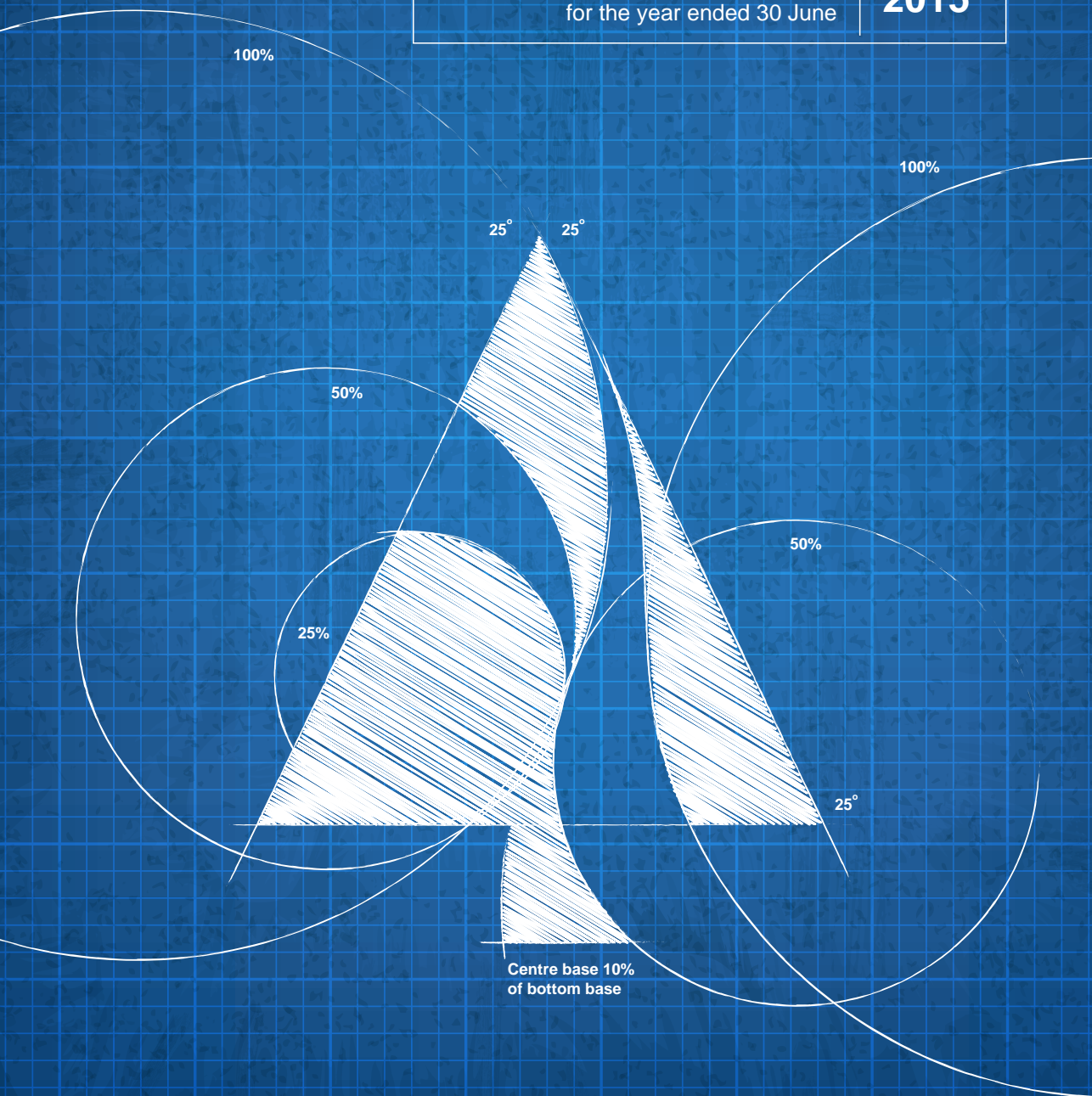


INTEGRATED ANNUAL REPORT
for the year ended 30 June

2015



ABOUT THIS REPORT

We are pleased to present to stakeholders our integrated annual report for the year ended 30 June 2015.

SCOPE

The scope of this report covers the performance of the Group in the period under review. We are confident that our integrated annual report will provide the basis for meaningful engagement with our stakeholders in the year ahead. This is our principal communication to stakeholders and is aimed primarily at providers of financial capital, being both our current and potential shareholders. In addition, we aim to inform all stakeholders interested in our ability to create value over time.

This report contains comprehensive information on our financial performance, stakeholders, governance, material issues, risks and opportunities and how these influence our strategic objectives. We show how we create value and how we will ensure that our value creation is sustainable.



See the section "About York Timbers", which starts on page 2.



See the section "Governance and sustainability", which starts on page 74.

RESPONSIBILITY FOR THIS INTEGRATED ANNUAL REPORT

This report was prepared under the supervision of the Company Secretary, Sue Hsieh LLB, and Chief Financial Officer, Pieter van Buuren BCom Hons CMA CA(SA).

The Board is ultimately responsible for ensuring the integrity of the integrated annual report, assisted by the Audit Committee and further supported by management, which convened and contracted the relevant skills and experience to undertake the reporting process and provided management oversight. The Board, after applying its collective mind to the preparation and presentation of the report, concluded that it was presented in accordance with the <IR> Framework and approved it for publication on 28 September 2015.

We are committed to improving our reporting further and would appreciate your constructive feedback. Please use our contact details, which can be found on the back cover or by email to: shsieh@york.co.za.

YOUR GUIDE

These icons serve as a guide as to where further information on key areas can be found:



This icon indicates information that appears on our website: www.york.co.za



This icon accompanies page number references of information in this integrated annual report

FORWARD-LOOKING STATEMENTS

This report contains forward-looking statements about York's operations and financial condition. The Company has prepared this report based on information available to it at the time of writing, including information derived from public sources. No representation or warranty, express or implied, is provided in relation to the fairness, accuracy, correctness, completeness or reliability of the information, opinions or conclusions expressed herein.

This report is not intended to be relied upon as advice to investors, potential investors or funders and does not take into account the investment objectives, financial situation or needs of any investor. All investors should consider such factors in consultation with a professional adviser of their choosing when deciding if an investment is appropriate.

The Company undertakes no obligation to update or revise these forward-looking statements to reflect events or circumstances that arise after the date made or to reflect the occurrence of unanticipated events. Inevitably, some assumptions will not materialise, and unanticipated events and circumstances may affect the ultimate financial results.

Projections are inherently subject to substantial and numerous uncertainties and to a wide variety of significant business, economic and competitive risks, and the assumptions underlying the projections may be inaccurate in any material respect. Therefore, the actual results achieved may vary significantly from the forecasts, and the variations may be material.

CURRENT-YEAR ENHANCEMENTS

We have refined the structure and flow of the information with a clear picture of the **BUSINESS MODEL** and value creation. We also provide more details of our **STRATEGY**.

We have again examined our disclosure on **GOVERNANCE** and given attention to detailing the efforts of each of the Board committees.



The performance and future outlook section, which starts on page 32, provides a more detailed outlook of future plans and expectations, in addition to a critical evaluation of our performance over the past year.

ESTABLISHING MATERIALITY

We define material issues as those which have the potential to substantially impact our ability to create and sustain value for our stakeholders.

The process we adopted to determine the issues material to our business and our stakeholders is aligned with our organisational decision-making processes and our strategies. By applying the principle of materiality, we determined which issues could influence the decisions, actions and performance of the Group.



Material matters and focus areas are discussed on pages 26 and 27 of this report.

We describe the circumstances in which we operate, the key resources and relationships on which we depend, the key risks and opportunities we face and how our key priorities can affect our ability to create and sustain value over time.

REPORTING PRINCIPLES AND ASSURANCE

The information included in the integrated annual report is provided in accordance with International Financial Reporting Standards (IFRS), the South African Companies Act 2008 (Companies Act), the JSE Listings Requirements, as well as the King Code of Governance Principles 2009 (King III) and the International Integrated Reporting Council's (IIRC) International Integrated Reporting Framework (<IR> Framework).

We have implemented the Framework as far as practicable and our approach to integrated reporting will continue to evolve over time, in line with the <IR> Framework.

Our external auditor, KPMG Inc., audited the annual financial statements. The Group's broad-based black economic empowerment (BBBEE) rating and scorecard have been verified by an accredited rating agency, Premier Verification Proprietary Limited.

The Audit Committee had oversight of the preparation of the integrated annual report and recommended it for Board approval, which was obtained on 28 September 2015.



Blueprint to York's future

1

ABOUT YORK TIMBERS

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ANNUAL FINANCIAL STATEMENTS

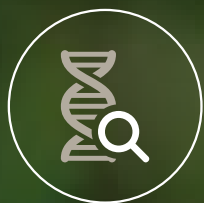
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Sustainability
and **quality of raw**
material are key parts
of the **York strategy**



A PLATFORM
FOR **FUTURE**
GROWTH



About **YORK** **TIMBERS**

Organisational overview



York Timber Holdings Limited (York or York Timbers) is listed on the JSE in the Forestry and Paper Index sector under the share code YRK. The Company was incorporated in 1916 and has been listed on the JSE since 1946.

York is an integrated forestry company, operating through its wholly owned subsidiaries, York Timbers Proprietary Limited that owns plantations, processing plants and Agentimber Proprietary Limited runs a wholesale distribution network.

YORK HAS THE LARGEST MARKET SHARE OF THE SOUTH AFRICAN TIMBER AND PLYWOOD MARKET.

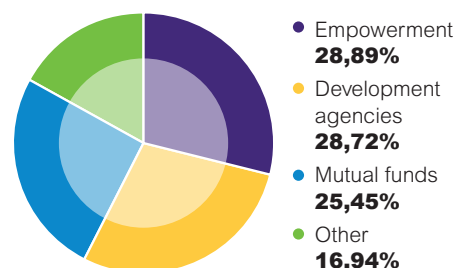
This share in the market is a result of York's sustainable biological assets, integrated with both primary and value-added processes.



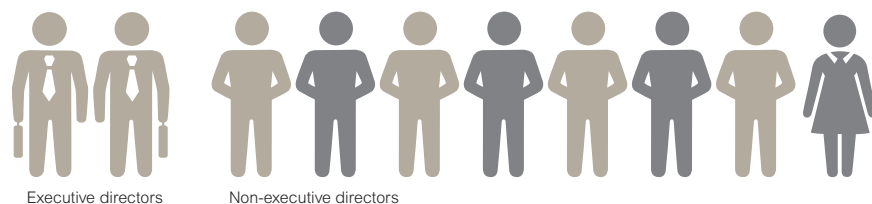
SHARES

AUTHORISED: **600 MILLION**
ISSUED: **331 240 597**

SHAREHOLDING



BOARD COMPOSITION

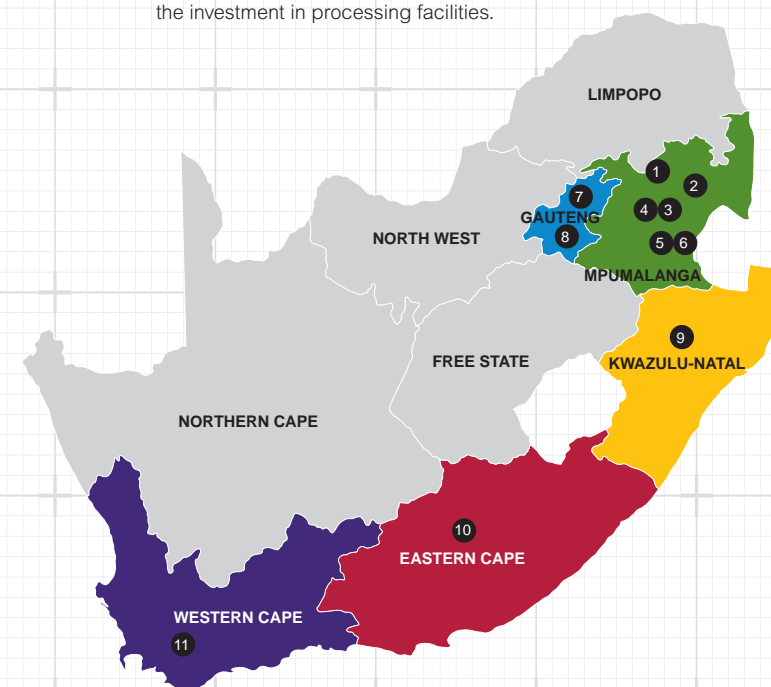


TIMELINE



YORK'S OPERATIONAL FOOTPRINT

- Sabie and Jessievale sawmills are ideally situated next to timber supply from York as well as from external resources.
- Processing plants are well positioned to service the Southern African market.
- Sustainable raw material supply underpins the investment in processing facilities.



MPUMALANGA

- DRIEKOP**
Sawmill (Pine timber products)
- NICOLSON & MULLIN**
Sawmill and treatment plant
- SABIE MILL**
Sawmill and treatment plant
- PLYWOOD**
Plywood manufacturer
- JESSIEVALE**
Sawmill and treatment plant
- GOLDEN RHINO**
Sawmill

GAUTENG

- PRETORIA WAREHOUSE**
Warehouse and distribution facility
- ROODEKOP, JOHANNESBURG**
Warehouse, distribution and value added products

KWAZULU-NATAL

- DURBAN**
Sales office

EASTERN CAPE

- PORT ELIZABETH**
Sales office

WESTERN CAPE

- EPPIING WAREHOUSE, CAPE TOWN**
Warehouse, distribution and treatment facility

60 470HA
OF FOREST STEWARDSHIP
COUNCIL CERTIFIED
PLANTATIONS OF WHICH

**54 136HA OF PINE
AND 2 906HA OF
EUCALYPTUS**
WERE PLANTED AT YEAR-END

2012

Business was returned to profitability, coupled with successful refinancing of debt
First York Enduro Mountain Bike Rally

TNAV per share: 658 cents

2014

Implementation of growth strategy, with focus on EBITDA generation

TNAV per share: 707 cents

2015

Environmental authorisation obtained for biomass power plant project
Strong cash generation and commencement of plywood expansion project
Wholesale division returned to profitability

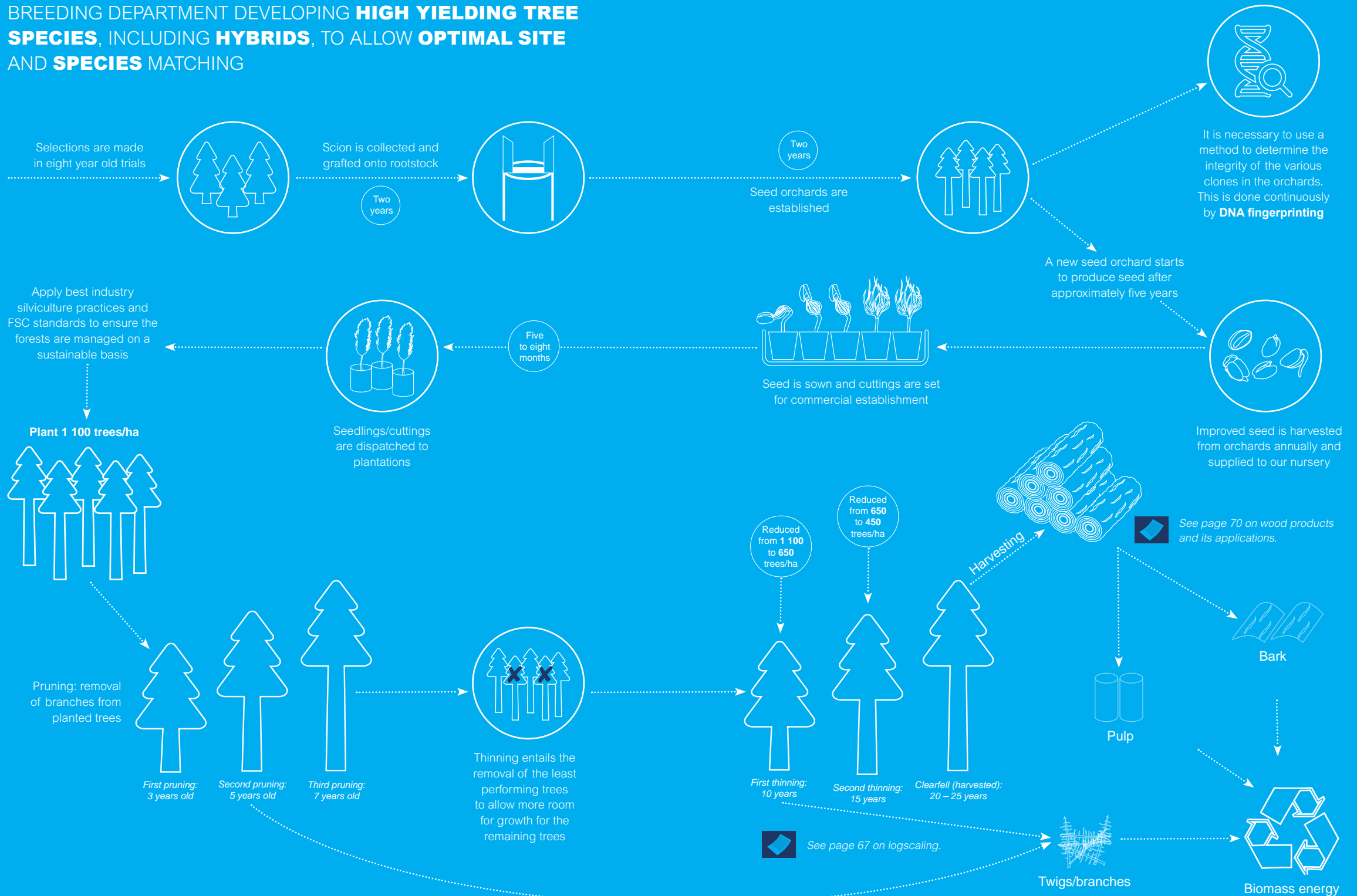
TNAV per share: 739 cents

2016

Development of new product ranges and targeted export markets
Commission plywood expansion project
Participate in REIPPPP
Further investment in remanufacturing facilities

From seeds to sales

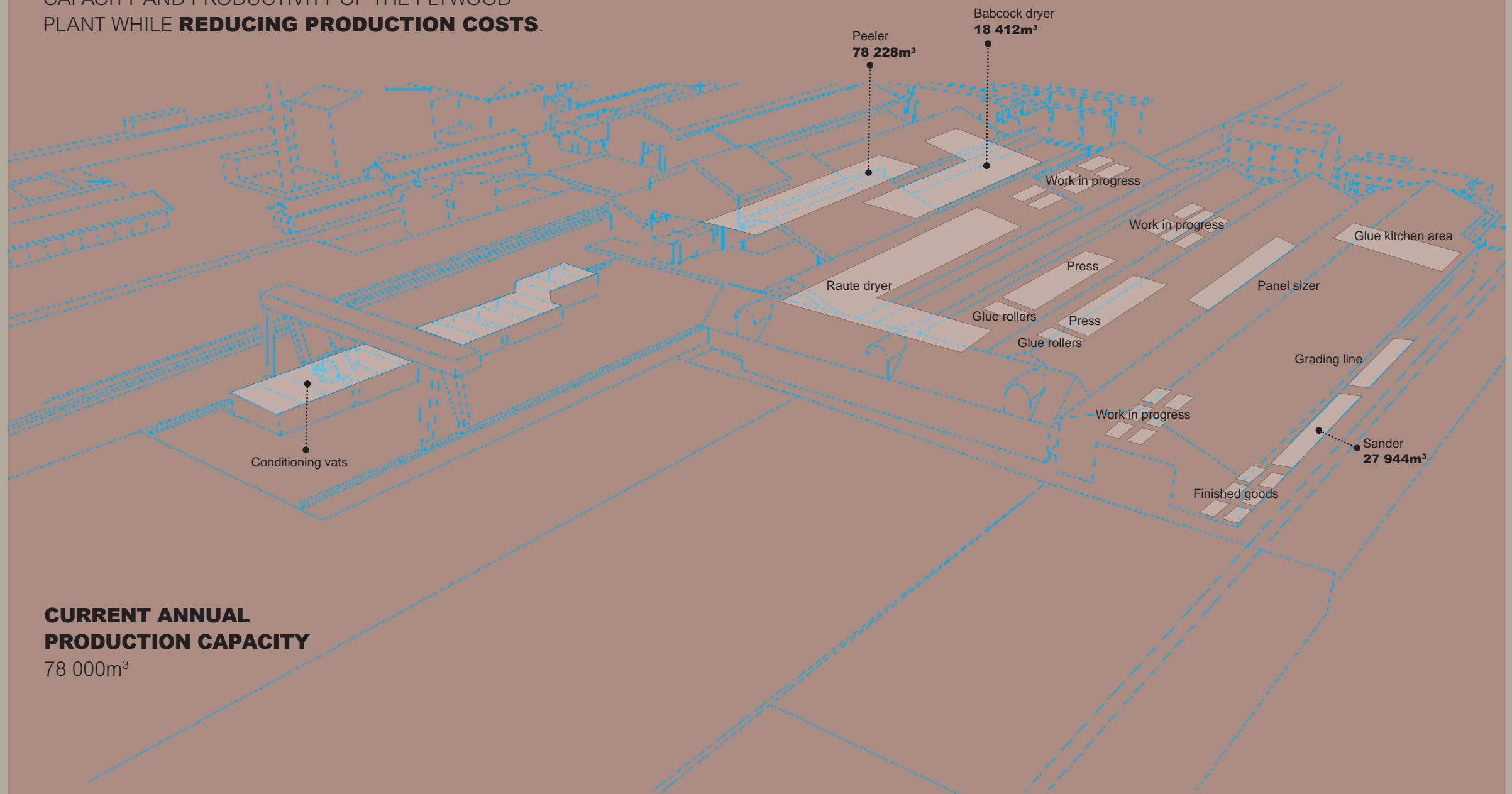
BREEDING DEPARTMENT DEVELOPING **HIGH YIELDING TREE SPECIES**, INCLUDING **HYBRIDS**, TO ALLOW **OPTIMAL SITE** AND **SPECIES** MATCHING



Operational technology: plywood expansion project

BEFORE

THE AIM OF THE **PLYWOOD EXPANSION PROJECT** IS TO **INCREASE COMPETITIVENESS** BY INCREASING THE OVERALL PRODUCTION CAPACITY AND PRODUCTIVITY OF THE PLYWOOD PLANT WHILE **REDUCING PRODUCTION COSTS**.



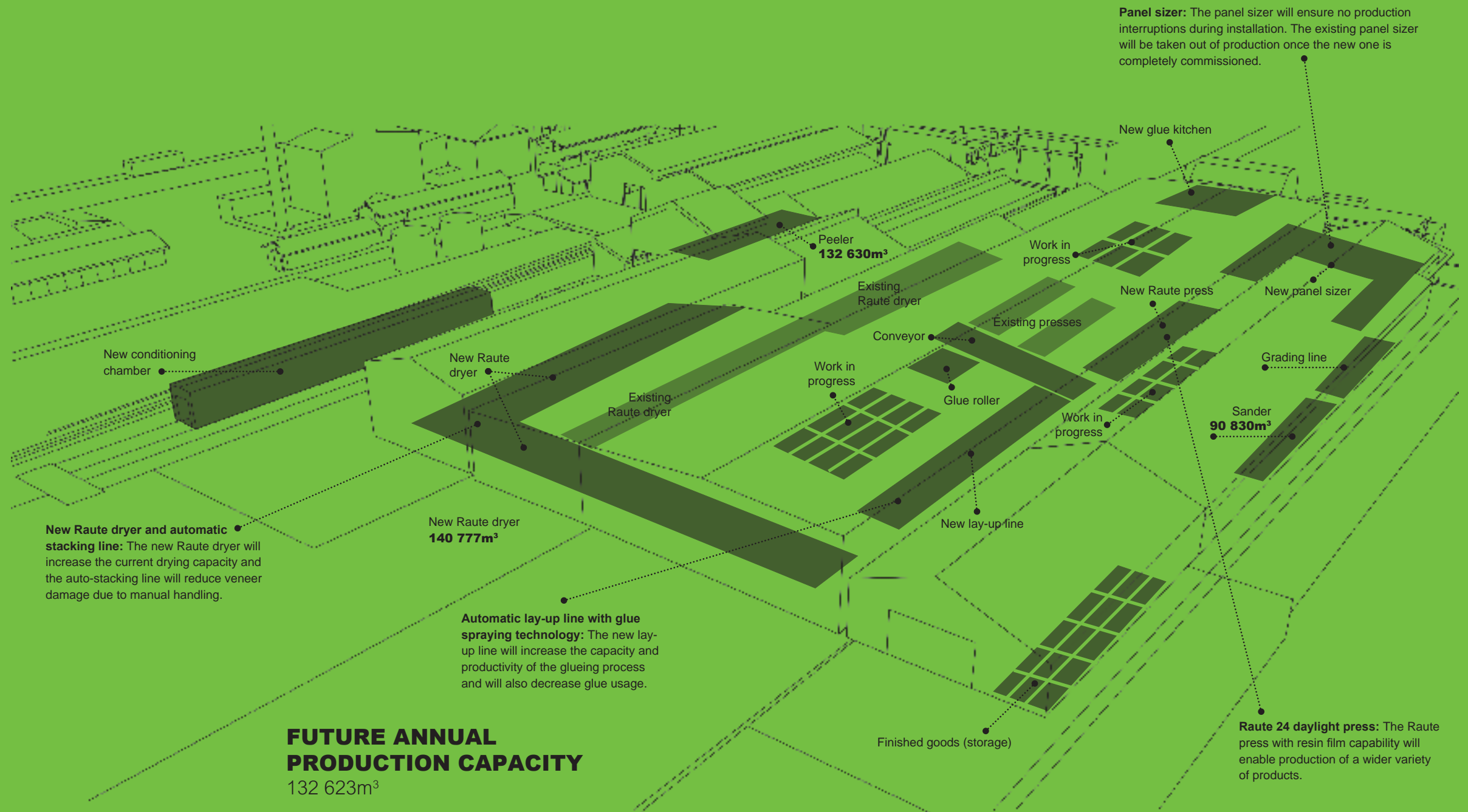
**CURRENT ANNUAL
PRODUCTION CAPACITY**
78 000m³

Capacity is indicated next to the named equipment/machinery.

Operational technology: plywood expansion project

continued

AFTER



Capacity is indicated next to the named equipment/machinery.

Business model



NURSERY

Nursery developing high yielding tree species, including hybrids, to allow optimal site and specie matching



FORESTS

Through industry leading silviculture practices, FSC standard forests are advanced on a sustainable basis



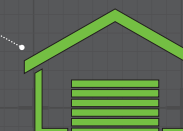
PROCESSING FACILITIES

Five sawmills and one plywood plant running at recoveries greater than theoretical at continuous production



EXTERNAL LOG PURCHASES

External purchase of logs contributes to a stable industry and supplies growing needs from processing facilities



WAREHOUSE AND DISTRIBUTION FACILITIES

Three distribution warehouses supporting customer supply-chain needs and demand for timber



MAJORITY CUSTOMER BASE

Supplied directly from the mill or via the warehouse



York STRATEGY

Prioritise clear measurable **milestones** as **defined** within the **growth path**

Ensure alignment throughout York and strive for **goal congruence**

Tenaciously seeking **market growth** and **expansion opportunities**

Continuous **benchmarking** to remain **internationally competitive** and **enhance** competitiveness to **embed** the **sustainability** of York

Continue to **evaluate** and manage our **business** on a **performance driven** basis

Strategy

Capitals	Strategic objectives	Material issues	Strategic response	Key performance indicators (KPIs)*	Stakeholders**
 NATURAL	Protect and grow the biological asset in order to extract optimal use on a sustainable basis	<ul style="list-style-type: none"> Fire Animals Stock control Locality Quality Log mix 	<ul style="list-style-type: none"> Fire protection Site optimisation Species Hybrids Yield/fibre optimisation Value-added products External log purchases 	<ul style="list-style-type: none"> Value of biological asset Yields Total forestry area under control Temporary unplanted area (TUP) 	<ul style="list-style-type: none"> Investors Community
 MANUFACTURED	Expand and utilise facilities optimally, both in function and in location	<ul style="list-style-type: none"> Load shedding Strikes Locality 	<ul style="list-style-type: none"> Capital expenditure Single site Plywood plant upgrade Biomass power plant Distribution channels Service levels Locality 	<ul style="list-style-type: none"> Capital expenditure Average selling price Market share Energy and other utility utilisation 	<ul style="list-style-type: none"> Investors Customers Suppliers Staff
 INTELLECTUAL	Deliver the best products as efficiently as possible	<ul style="list-style-type: none"> Fibre optimisation Efficiency 	<ul style="list-style-type: none"> Hybridisation Digitisation Mechanisation Diversify earnings base 	<ul style="list-style-type: none"> Value of biological asset New products launched Diversified product mix 	<ul style="list-style-type: none"> Investors Staff
 HUMAN	Attract, develop and stimulate the right minds	<ul style="list-style-type: none"> Unions Political activity New skills 	<ul style="list-style-type: none"> Skills in line with manufacturing Environment 	<ul style="list-style-type: none"> Staff turnover People trained Safety statistics Clinic statistics 	<ul style="list-style-type: none"> Staff
 SOCIAL	Mindful of the greater community affected by our operations	<ul style="list-style-type: none"> Community involvement Upliftment BBBEE 	<ul style="list-style-type: none"> Community Social club 	<ul style="list-style-type: none"> CSI spend Training programmes 	<ul style="list-style-type: none"> Staff Community Media
 FINANCIAL	Deliver a sustainable return to shareholders	<ul style="list-style-type: none"> Return on investment Sustainability 	<ul style="list-style-type: none"> Expansion Dividend policy Cost efficiency/optimisation 	<ul style="list-style-type: none"> Cash profits EBITDA Total shareholder return 	<ul style="list-style-type: none"> Investors Financial institutions Government

* For a review of the Group's performance against these key performance indicators (KPIs), see page 34.
 ** For more information on the Group's stakeholder engagement, see page 24.



NATURAL CAPITAL

Protect and grow the biological asset in order to extract optimal use on a sustainable basis.



SUSTAINABILITY AND QUALITY OF RAW MATERIAL ARE A KEY PART OF THE YORK STRATEGY.

Continuous improvement and **optimisation of our biological asset** is being strengthened with closer relationships and partnerships forged with various research institutes and expert bodies such as Forestry and Agricultural Biotechnology Institute (FABI), Tree Protection Co-operative Programme (TCP), Institute for Commercial Forestry Research (ICFR), Camcore and various others. This adds substantial value towards York's programme of tree improvement via **selective breeding, hybridisation and genetic optimisation**, which is starting to generate substantially improved yields.

YIELDS

In a recent optimisation exercise by industry expert Martin Herbert, it was indicated that the annual pine offtake in the Escarpment area could increase from the current normalised value of 556 987m³ per annum to 856 099m³ per annum. This represents a 54% increase, of which 27,8% can be ascribed to using better genetic material and by planting the right material on the right site. A further 25,9% volume gain is possible through better site utilisation (the regime impact) and this is realised through

THE MAIN OBJECTIVE OF THE BIOMASS POWER PLANT PROJECT IS TO **ACHIEVE OPTIMAL VALUE EXTRACTION OF BIOMASS**. THIS WILL BE DONE BY **CONVERTING THE BIOMASS INTO USABLE OR SELLABLE ELECTRIC ENERGY**.

planting more (an optimised number of) trees per unit area and thinning optimally in terms of timing and intensity.

OPTIMISATION

A biomass power plant is proposed for the Sabie site, utilising forest biomass (pulp logs, tree tops and branches/ foliage) and processing by-products as fuel. Forest biomass comes from pulp logs, tree tops, branches and foliage, whilst processing by-products include rejected logs, bark, chips and sawdust.

The main objective of the project is to achieve optimal value extraction of York biomass. This will be done by converting the biomass into usable or sellable electric energy.

The biomass power plant will furthermore **reduce the risk of fires** by dramatically reducing fuel loads in the plantations, whilst also creating opportunities through the value created for biomass, thereby allowing for alternative forestry regimes, which will lead to a substantial increase in the biological value.

FIRE PROTECTION

Following the unusual losses suffered by the whole of the South African forestry industry during 2007 and 2008, the forestry industry in Mpumalanga again experienced severe losses during the 2014 fire season when 10 144 hectares of plantations were burnt. York had 61 fires over the reporting period. Total area burnt was 2 072 hectares of which 1 406 was planted to trees. York's annual fire protection expense amounts to

UNCONTROLLED WILDFIRES REMAIN THE BIGGEST RISK TO THE SUSTAINABILITY OF YORK'S PLANTATIONS.



See page 59 for more information on York's efforts to increase tree optimisation.

R22 million, aimed at minimising the effect of these inevitable events.

The greatest amount of time spent on veld and forest fire protection takes place prior to the fire season on fire prevention (identifying hazards and risks, fuel load management, constructing and burning of fire breaks, awareness campaigns), planning, training and other fire suppression activities.

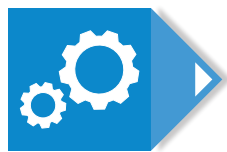
The probability of large fires is related to fuel hazard, topography, fire weather and the initial attack (IA) fire size when first resources arrive at a fire. One of the measures to minimise the IA fire size and response times is through efficient fire detection and by deploying appropriate suppression resources rapidly from bases in locations that provide optimised geographical spread and coverage.



See page 100 for more information on York's fire prevention efforts.

The key focus areas of fire protection are fire detection, construction of fire breaks, fuel load management and fire standby. Of the total fire protection budget for the current financial year of R22 million, 16% (R3,6 million) is allocated to detection, 28% (R6,1 million) to firebreaks and controlled burning and 56% (R12,3 million) to fire standby, which covers fire crews, fire trucks and aerial resources.





MANUFACTURED CAPITAL

Expand and utilise facilities optimally, both in function and in location.

YORK'S STRATEGY IS TO CONTINUOUSLY IMPROVE VALUE EXTRACTION FROM ITS RAW MATERIAL.



To this end York embarked on its course of investment in processing technology to extract maximum value. This is starting to take shape with the first part on the route of execution being the **plywood expansion project**. After an initial delay from the Mpumalanga Department of Economic Development, Environment and Tourism to provide the necessary authorisations the project is now in full swing and progressing well without any interruptions, to current operations. This project will be completed in the next financial year, with full production expected to come on line during the fourth quarter.

CAPITAL EXPENDITURE

The initial capital expenditure as part of the overall integrated site project, being in respect of the upgraded plywood plant, will allow York the flexibility of

serving a broader portion of the market whilst also creating the basis for York's strategy of moving up the value chain by adding value-added products to its product offering. The upgrade of the plywood plant will increase throughput of the plant whilst increasing automation and mechanisation, leading to improved productivity.

Based on the increasing production capacity, as well as improved yield from its plantations, York is planning to enter the biomass electricity production area as part of the Department of Energy's renewable energy programme. York expects to submit a bid under the REIPPPP programme during the first half of the next financial year for a **biomass power plant**, which will be the next phase of optimal value extraction from its assets.

Submitting a bid under the REIPPPP programme presents a unique opportunity to diversify York's income streams, thereby

THE INITIAL **CAPITAL EXPENDITURE** AS PART OF THE OVERALL INTEGRATED SITE PROJECT, BEING IN RESPECT OF **THE UPGRADED PLYWOOD PLANT**, WILL ALLOW YORK THE FLEXIBILITY OF **SERVING A BROADER PORTION OF THE MARKET** WHILST ALSO CREATING THE BASIS FOR YORK'S STRATEGY OF MOVING UP THE VALUE CHAIN BY **ADDING VALUE-ADDED PRODUCTS** TO ITS PRODUCT OFFERING.

establishing an additional market for its raw material. This project will provide York with viable solution for its by-products and substantially improve York's raw material optimisation capability. At the same time the risk presented by **load shedding will be minimised** since York will be a key customer feeding into the national grid.

York's processing strategy will continue focusing on **cost optimisation** and, with



See page 60 for more information on York's Processing division.

THE **BIOMASS POWER PLANT** IS A STRATEGIC PROJECT IN TERMS OF **YORK'S GROWTH PLAN**, WHICH **INCLUDES THE OPTIMAL UTILISATION OF THE AVAILABLE BIOMASS FIBRE.**



load shedding unfortunately becoming a reality, efficiency is currently high on the agenda.

The addition of value-added products through remanufacturing will be strengthened via a focus on manufacturing and **value addition close to the market** on a continuous basis – deviating from the traditional interrupted stop-start process, thereby reducing cost and delivering according to market requirements.

It is also aligned with York Timbers' processing strategy, which entails the development of a new integrated sawmill. The new sawmill will generate a large amount of residue and the biomass power plant will ensure optimal value is extracted from all available fibre once the plant is operational.

ENERGY AND OTHER UTILITY UTILISATION

In light of the ever increasing cost of utilities throughout the York operations, significant attention is being paid to reducing usage and cost. Apart from various small energy efficiency projects, York has already implemented the following, which resulted in substantial cost savings:

- The dust extraction lines at Driekop sawmill were consolidated to reduce the number of extraction fans, which resulted in significant savings at the sawmill.
- Sabie and Jessievale sawmills were transferred from Eskom's Nightsave Rural tariff to Ruraflex tariff. This not only resulted in immediate savings, but allowed York the opportunity to further reduce cost by transferring load from peak periods to off-peak (cheaper tariff) periods via better planning and scheduling. This has had a significant impact on York's operating utility costs, with various options for further improvement being investigated.
- The new plywood expansion project required the installation of new roofs to house the various machines. These roofs will be fitted with LED lighting, replacing the conventional lighting used in the older buildings, which will be much more energy efficient.



INTELLECTUAL CAPITAL

Deliver the best products as efficiently as possible.

Digitisation of the value chain in order to extract maximum value is becoming of strategic importance. This means the capability of being able to model characteristics of the timber as it moves through the production process to ensure optimal value is extracted based on customer needs being matched to raw material characteristics.

By utilising various parts of raw material inputs optimally, this will also allow for the improved capability to increase product development to better serve market needs and diversify products and markets served.

The forward-looking outlook on intellectual capital is to shift the mind-set of traditional application for lumber

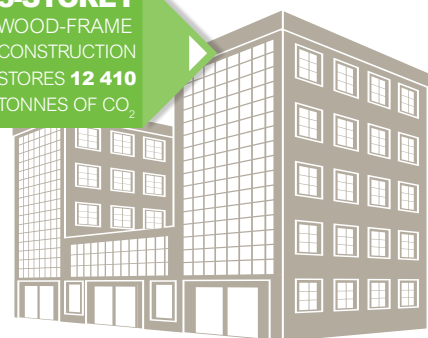
in Southern Africa. York is positioning itself to provide design solutions and manufacture specialised building material for commercial buildings made entirely from wood.

Wood is a renewable resource and responsible choice as it reduces the environmental impact of buildings. When selecting building materials, wood should be considered as it has lower costs to the environment and delivers more.

IMPROVEMENTS IN TECHNOLOGY AND PRODUCT DEVELOPMENT HELP MAKE WOOD PRODUCT MANUFACTURING A **ZERO- WASTE INDUSTRY.**

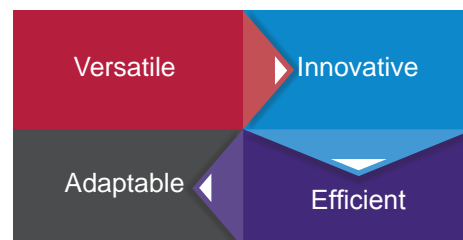
NORMAL CONSTRUCTION entails **7 MILLION TONNES** of greenhouse **GASES AND TOXIC EMISSIONS**, water pollutants and some forms of waste. Wood products have a lighter footprint since they produce lower greenhouse gas emissions, less air pollution and lower volumes of waste.

5-STOREY
WOOD-FRAME
CONSTRUCTION
STORES **12 410**
TONNES OF CO₂

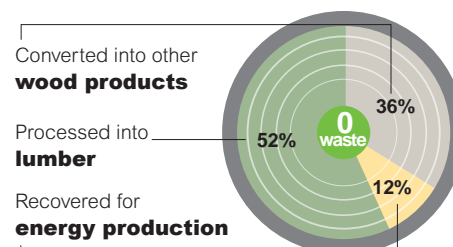


15% LESS ENERGY
to build houses when using wood

BENEFITS OF USING WOOD:



WOOD SEQUESTERS CARBON, making it the ideal input material to a real green building



HUMAN CAPITAL



Attract, develop and stimulate the right minds.

The main enabler for the execution of strategy is people and to this end York has implemented Project Evolve, in conjunction with strategy partners, Alexander Proudfoot, to evaluate and effect resource balancing throughout all operational business units. This project is expected to start contributing to the bottom line early in the new financial year.

The Human Resources (HR) environment in York is driven by the need to attract and develop talent appropriate to the growth strategy while maintaining an engaged and productive workforce that can deliver on present business requirements.

Initiatives to develop both leadership and technical skills in various divisions continue. Remuneration benchmarks on the wage staff pay rates at each site and for the artisans were conducted to evaluate York's position in the industry.

The HR team has centralised many activities and adopted a shared service approach to improve controls and compliance as well as to improve the business partner relationship between HR and its internal customers. All recruitment has been centralised as well as induction, on-boarding, exit analysis and employee transfers.

Critical positions and talent pools for each role have been identified and the professional development pathways of these talent pool employees are monitored monthly. Stretch assignments and external training as well as industry exposure and business coaching are included in this development.

York's BBBEE score was verified as Level 4 in March 2015. A strategy to ensure the Company's BBBEE score under the new BEE codes is optimal, without excessive expenditure, is being addressed by the Finance and HR teams jointly.



YORK'S CHALLENGES

Labour relations challenges remain a priority.

There is an agitated climate around worker rights nationally, which is impacted by union and political rivalry. A number of matters will be addressed with the relevant trade unions, including the large differences between wage demands and what is sustainable, equal pay for equal work legislation and finalisation of the provident fund agreements.

The need to ensure talent pipelines for key roles and relevant training that engages high performers is critical. A solid labour relations climate and focused control on employee costs will be key factors in York's success in the next financial year.

Production costs, affordable wage rates as well as productivity and a smooth industrial relations climate where employees are focused on quality and efficiency in achieving throughput will be focal areas for HR to support.

The need to build cross-functional alliances and deepen inter-departmental co-operation, thus eliminating silos, will contribute positively to York. This will be achieved through ensuring departmental evaluations are included in the performance management system.

The revision of the performance management system is in process to address shortcomings in its usefulness as a motivation and remediation tool.

TRADE UNION ACTIVITIES

Although the year under review has seen a rise in industrial action, this has not caused any disruptions to York's business. While there has been some inter-union rivalry and York has felt the pressure of national social political issues, this has not interfered with business.



See page 110 for more information on York's care for the upliftment, training and health of its employees.



SOCIAL CAPITAL

Mindful of the greater community affected by our operations.



In its role as a good neighbour, true participation and involvement is intrinsic to the way York sees corporate social investment (CSI).

The principles of York's CSI programmes are aimed at delivering an internal, economic and social benefit aligned with the human capital strategies of continually:

- Leading and developing;
- Attracting and engaging; and
- Reinventing and improving.

York's social upliftment activities are aimed at redressing past inequalities by empowering previously disadvantaged individuals and being involved with projects aimed at alleviating poverty. These efforts are focused on ensuring the growth and social development of the communities in which York operates.

York is involved with major events such as the York Long Tom Marathon and the York Enduro Mountain Bike Rally which, other than for direct CSI projects such as with Sasol, also bring people from all over the country to visit the community and experience York's people and its environment. These exciting events, organised by the York Adventure Club, bring much needed visitors and accompanying spending and investments to the region.



For more information on York's activities in uplifting the community, refer to page 113.



For more information on the activities of the York Adventure Club, refer to page 122.

YORK IS PASSIONATE ABOUT ITS ROLE AS A **SOCIAL SUPPORTER AND PROMOTER** OF VARIOUS COMMUNITIES AND **FAMILY VALUES** IN BOTH THE LOWVELD AND THE HIGHVELD REGIONS.



FINANCIAL CAPITAL



Deliver a sustainable return to shareholders.

Once the plywood expansion project has been completed, a volume of 132 623m³ per annum will be available from own production against the current production of 78 000m³ at York's plywood plant. Sales into the market by York, including imported plywood via the Wholesale division, is currently at 100 000m³ per annum. Total SA market size is estimated at between 132 000m³ and 161 000m³. This is made up mainly of shutter ply. The volumes currently sold include sales to South Africa, Mozambique, Namibia, Botswana and Zambia. Competitors currently import approximately 17 000m³ per annum. New and alternative markets will be serviced for the additional 45 131m³ per annum that will be available to York, which include:

- Replacement of imported plywood from competing overseas markets;
- Production of resin film board, with the target market being "form work specialists";
- An introduction of a combi board. This is a board that is either made up of a hardwood core and pine faces for increased strength properties, or it can be produced with a pine core and hardwood faces for decorative use;
- Export opportunities into the UK and Europe. With York already having the CE mark, which is the standard required in the UK and Europe, as well as FSC certification, the barrier to entry is reduced;
- Decorative products that can be used in flooring and panelling; and
- Dedicated focus to develop the plywood market extensively to ensure access to international markets.



See page 35 for more information on York's financial highlights.

PLYWOOD

CURRENT PRODUCTION CAPACITY PER ANNUM

78 000m³

PRODUCTION CAPACITY PER ANNUM ONCE PROJECT COMPLETED

132 623m³

York's strategy of **consolidating various distribution channels** is starting to bear fruit with its Wholesale division now well established and ready to increase its footprint in the market while focusing on the addition of value-added products. This also creates the opportunity of **improved service delivery** thereby strengthening alliances with key customers.

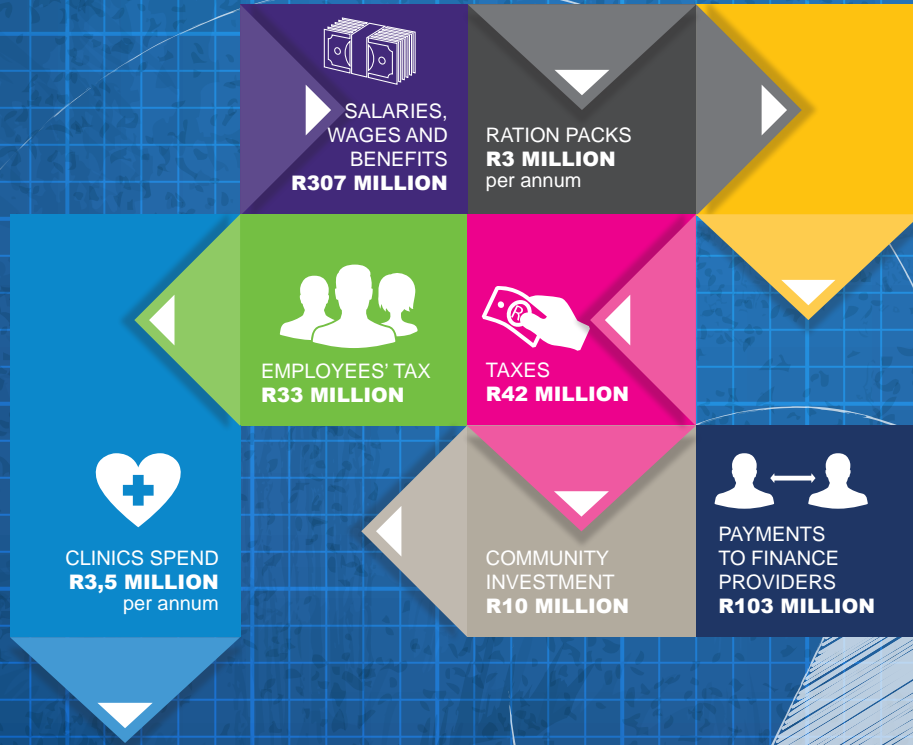


We believe that the strength of our relationships with all our key stakeholders is critical in the achievement of our strategic objectives and creating sustainable long-term value for the Company and its stakeholders. Stakeholder engagement involves gaining a thorough understanding of key stakeholder groups and assessing the issues that are material to them in order to respond appropriately. The Board of Directors oversees the process, while management is responsible for the implementation and monitoring thereof.

The table below provides an overview of our stakeholder engagement activities and how they impacted the formulation and delivery of our strategy:

Interaction and impact	Through a programme of meetings with major shareholders and analysts, shareholders are kept appropriately informed on matters relevant to the business. Conference calls and meetings are held twice a year following the release of the interim and annual results. Results are distributed to shareholders, hosted on the Company website and communicated via SENS	<ul style="list-style-type: none">Electronic communications and face-to-face visitsIdentify opportunities where we can help	Face-to-face and electronic communication	Face-to-face and electronic communication	Interaction and impact
Material needs	<ul style="list-style-type: none">GrowthSustainabilityOperational performanceClear strategyOptimal gearing	<ul style="list-style-type: none">Financial inclusionEnterprise developmentBBBEE	<ul style="list-style-type: none">Good customer service expectationsReliable product supplyServing product needs	Prompt payment	Material needs
Key stakeholders	SHAREHOLDERS AND ANALYSTS Including both present and potential future investors	COMMUNITIES in which Group companies operate	CUSTOMERS	SUPPLIERS	Key stakeholders
	GOVERNMENT AND REGULATORY BODIES	FINANCIAL INSTITUTIONS AND OTHER PROVIDERS OF FINANCE	MEDIA	STAFF Permanent staff, temporary staff and contractors	
Material needs	<ul style="list-style-type: none">Optimal managementPay all taxes on time	Prompt payment	Results announcements	<ul style="list-style-type: none">Staff engagement and communication – the importance of open and honest feedbackTrainingHealth and safety	Material needs
Interaction and impact	We strive to engage with government and regulatory bodies in a proactive and transparent manner	Face-to-face and electronic communication, mostly by the Chief Financial Officer		We operate in a solutions-driven culture, where teamwork, individual achievement and continuous learning are encouraged. We rate and reward our people on their ability to add value to the business. Our people are critical to the long-term sustainability of the business	Interaction and impact

Adding value to our stakeholders



Material matters and focus areas

The top 10 risks that York faces, together with the probability of these events occurring and the impact thereof (high/medium and low), are listed below. The mitigating strategies, together with opportunities arising therefrom are listed alongside each risk.

■ High
■ Medium
■ Low

Key risks	Probability	Impact	Mitigating strategies and opportunities arising
ELECTRICITY SUPPLY/LOAD SHEDDING <ul style="list-style-type: none"> Eskom short supply of electricity demand Eskom not keeping to load shedding schedule and/or short notice of load shedding changes 	■	■	<ul style="list-style-type: none"> Negotiated for certain site to be treated as load curtailment, not load shedding, customer Power generators at remaining mills to keep servers operational Biomass electricity plant prioritised
FIRE <ul style="list-style-type: none"> Plantation fire – loss of juvenile timber Fire at processing plants – physical loss and business interruption Fire risks at warehouse operations Skew age distribution in escarpment due to 2007 fires, resulting in increased pruning and thinning operations leading to higher fuel load 	■	■	<ul style="list-style-type: none"> New fire trucks ordered (capacity and response improve) Fire risk management system improved Insurance cover including business interruption. Reduce fuel load prior to new planting Improved water refilling capacity at airstrips (quicker turnaround of aircraft and reduction in costs) Fire plans in place for all processing plants – audited and approved Implementing fire audits and plans for warehouse sites Enhanced resource coverage on aerial resources Focus on identification of high risk areas, fuel load reduction, early detection and rapid initial attack of fires Annual review by independent risk engineer
EXTERNAL LOG SUPPLY AND PRICES <ul style="list-style-type: none"> Limit in log supply has the effect of increase in log prices 	■	■	<ul style="list-style-type: none"> Pursuing alternative log supply options Sourcing veneer logs from York's Highveld plantations
HIGH/ESCALATING LABOUR COST <ul style="list-style-type: none"> Further increase to minimum wage proposed with continued pressure on wage rates Ripple impact of minimum wage increases on semi-skilled and skilled rates No commensurate productivity/efficiency increases 	■	■	<ul style="list-style-type: none"> In-sourcing of contract labour with increased efficiencies Increased mechanisation Sabie integrated site to be less labour intensive Continuous consultation and communication with unions
PLYWOOD PROJECT <ul style="list-style-type: none"> Execution of plywood project in full swing whilst keeping existing plant operational 	■	■	<ul style="list-style-type: none"> Dedicated project manager and project engineer Daily co-ordination between operations and project team to ensure continuous operations Continuous monitoring against project plan

Key risks	Probability	Impact	Mitigating strategies and opportunities arising
PLYWOOD DEMAND <ul style="list-style-type: none"> Increased imports by competitors Competing alternative products 	■	■	<ul style="list-style-type: none"> Expanding market penetration to Southern Africa Development Community (SADC) and other African countries Investigating other export markets Production shift to higher value, lower volume products
INDUSTRIAL ACTION <ul style="list-style-type: none"> Direct impact largely addressed through agreements Increased politicisation New rival union impacting existing union behaviour and relationships Indirect cost impact of industrial action on wages and input costs Industrial action impacting the economy, reducing disposable income and spending in the building sector 	■	■	<ul style="list-style-type: none"> York has functional relationship with unions and York staff Favourable outcomes in past wage negotiations led to fair settlements due to skilled and experienced negotiators Implemented training and direct communication for labour on ethics and basic business understanding (implications and damage of industrial action to the business and individual employees)
LOG MIX AND QUALITY <ul style="list-style-type: none"> Impact of decisions made in-field on type of logs to be cut from each tree Reduced tree size in the escarpment due to 2007 fires 	■	■	<ul style="list-style-type: none"> Implemented improved log quality measurements/checks at roadside Reports made available for managers to evaluate log production against targets and implement corrective action where and when needed Planned merchandising log yard in order to optimise bucking operations
ANIMAL DAMAGE <ul style="list-style-type: none"> Animal damage to trees resulting in poor growth or early mortality Damage to trees results in lower recoveries when processed due to defects Baboon population exploded far higher than area can support Existing measures becoming less effective 	■	■	<ul style="list-style-type: none"> New large cage concept implemented and now being expanded significantly Developing increased contractor capacities (shared by York and Komatiland Forest) Existing initiatives ongoing but expanded Research project underway, funded and driven by Forestry South Africa to investigate alternative sustainable solutions. York is fully participating in study Agreement reached to "custom cut" reject sawlogs (animal damage), resulting in higher value extraction
FAILURE OF ERP SYSTEM <ul style="list-style-type: none"> Capacity constraints emerging Limited resources available for support 	■	■	<ul style="list-style-type: none"> Constant monitoring – system stable Project implemented to specify replacement system

Board of Directors



Dr Jim Myers
Chairman



Pieter van Zyl
Chief Executive Officer



Dinga Mncube
Non-executive director

Independent



Paul Botha
Non-executive director



Gavin Tipper
Non-executive director

Independent



Shakeel Meer
Non-executive director

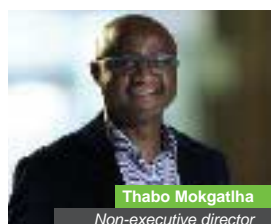


Pieter van Buuren
Chief Financial Officer



Maserame Mouyeme
Non-executive director

Independent



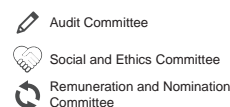
Thabo Mokgathla
Non-executive director

Independent



Dr Azar Jammine
Non-executive director

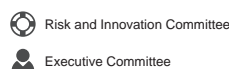
Independent



Audit Committee

Social and Ethics Committee

Remuneration and Nomination Committee



Risk and Innovation Committee

Executive Committee

DR JIM MYERS (75) US citizen

Chairman

Appointed: 26 February 2007

Qualifications: BA Mathematics (Texas A&M); MA Mathematical Physics (Arizona); PhD Industrial Engineering/Operations Research (Texas Tech)

Skills and experience: Jim has over 30 years' international business experience, specialising in the telecommunications industry. Jim's wide ranging experience includes the definition, development and implementation of management systems for the finance, engineering and production disciplines. He first came to prominence in Africa when he led the team that acquired MTN South Africa in the early 1990s on behalf of the giant American company before it later sold it. He was the principal driver behind the establishment and promotion of the consortium that acquired the SBC/Telekom Malaysia equity stake in Telkom SA. Jim's vast international deal-making experience is both inspiring and valuable in the next phase of York's growth.

PIETER VAN ZYL (52)

Chief Executive Officer

Appointed: 8 April 2009

Qualifications: BSc Agric (Pretoria); BSc Agric Economics Hons (Pretoria); MBL (Unisa)

Skills and experience: Pieter has considerable experience in the manufacturing and the solid wood processing industry. He has a successful track record in delivering complex change and returning companies to profitability. His leadership in cost optimisation and knowledge of market dynamics distinguishes him in the industry. His vision and ability to inspire teams are significant in executing growth strategies. This, coupled with his skill in identifying strategic investment opportunities, provides a solid platform for York's success. Piet brings a wealth of timber and sawmilling industry knowledge and expertise to York. His diverse skills cover manufacturing, marketing, change management, investment banking, people and strategy development. Pieter's executive management style is completely hands-on, ensuring an accurately executed strategy.

DINGA MNCUBE (55)

Independent non-executive director

Appointed: 6 March 2014

Qualifications: BSc Forestry (Washington State); MSc Forestry Business (Idaho); MCom Business Management (Johannesburg)

Skills and experience: Dinga has 20 years' executive experience in forestry, timber processing, paper and pulp businesses. He is a leading figure in the forestry transformation process. Amongst other achievements, Dinga played a prominent part in the revival of Project Grow, an award-winning enterprise development programme at Sappi. He played a key role in driving Sappi's R814 million black economic empowerment transaction in 2010. Dinga is a vital figure in York's transformation efforts, backed up by his solid industry experience.

PAUL BOTHA (52)

Non-executive director

Appointed: 4 September 2007

Qualifications: BA LLB (Wits); HDip Company Law (Wits); HDip Tax (RAU, now known as UJ)

Skills and experience: Paul has an outstanding record in executing many transactions involving private-equity transactions, stock exchange related transactions, mergers and acquisitions and entrepreneurial multi-disciplinary transactions. He also carried out a substantial amount of cross-border mergers and acquisition work across a number of industries throughout Africa. Paul is a committed and effective deal-maker and Board member with a reputation for getting things done to the highest standards of professionalism.

GAVIN TIPPER (50)

Independent non-executive director

Appointed: 12 May 2010

Qualifications: BCom (Wits); BAcc (Wits); MBA (UCT)

Gavin is a chartered accountant and has been involved in the financial services industry for more than 21 years. He completed his articles with KPMG and went on to hold the position of Technical Partner. He holds directorships in a number of listed South African companies.

SHAKEEL MEER (53)

Non-executive director

Appointed: 4 September 2007

Qualifications: BSc Engineering (KwaZulu-Natal); Advanced Management Programme (Insead); Developing Strategy for Value Creation (London Business School); Senior Management Development Programme (Euromoney); MBL (Unisa)

Skills and experience: Shakeel is an executive at the Industrial Development Corporation (IDC) with overall responsibility for corporate strategy, management of listed equities, marketing and communications, assets and liabilities management, procurement, information technology and research as well as overall responsibility for managing off-balance sheet and ring-fenced funds. He has previous experience in investments in various sectors of the economy, including mechanical engineering – design and maintenance of systems. Shakeel's experience and familiarity with the workings and people in the South African financial markets arena are important to York.

PIETER VAN BUUREN (45)

Chief Financial Officer

Appointed: 1 October 2013

Qualifications: BCom Hons (RAU, now known as UJ); CMA; CA(SA)

Skills and experience: Pieter is qualified as a chartered accountant and chartered management accountant. He has more than 20 years' professional experience, with 14 years in senior financial management roles, mostly in the construction, manufacturing and related industries. He also has extensive regulatory compliance experience. Pieter has proven a real asset in the effective delivery of timeous and actionable management information.

MASERAME MOUYEME (49)

Independent non-executive director

Appointed: 22 May 2015

Qualifications: BSocSci (UCT); MBA (Thames Valley University, UK)

Skills and experience: Maserame is a senior business executive with widespread management and operations experience of 24 years in multi-disciplinary roles with some of the world's leading corporates. She has commercial, customer and consumer marketing experience gained from the FMCG and advertising industries. Maserame has led multi-functional teams across different geographies. She is passionate about community affairs and sustainability and has partnered with NGOs and governments across Africa to drive corporate initiatives. York welcomes Maserame on board, especially for her experience in dealing with marketing, people and social objectives.

THABO MOKGATLHA (41)

Independent non-executive director

Appointed: 6 March 2014

Qualifications: BCom Accounting (North-West); BCompt/CTA Honours (Unisa)

Skills and experience: Thabo has many years experience and expertise in serving in board and leadership positions in various sectors such as mining, telecommunications, finance and manufacturing. He also has extensive experience in mergers and acquisitions and is qualified as a chartered accountant. Thabo complements the Board's financial and deal-making skills.

DR AZAR JAMMINE (66)

Independent non-executive director

Appointed: 5 October 2010

Qualifications: BSc Hons Mathematical Statistics (Wits); BA Hons Economics cum laude (Wits); MSc Economics (London School of Economics); PhD Economics (London Business School); Post-Doctoral Fellowship Centre for Business Strategy (London Business School)

Skills and experience: Azar started his career as an investment analyst and has more than 30 years' experience in economics. He specialises in macroeconomics and financial markets and is co-author of the books *McGregor's Economic Alternatives*, *Trends Transforming South Africa* and *Mindset for the new generation in South Africa*. York is fortunate to have Azar with his distinguished reputation guiding its approach to its economic challenges.

People of York

**YORK BELIEVES THAT
A COMPANY IS **ONLY AS
GOOD AS ITS PEOPLE.****

Pieter van Zyl
CEO

York held a strategy session with its employees during November 2014. All quotes below were given by York's employees who participated in the strategy session.

Gerald Stoltz
Financial Manager:
Corporate and
Processing

Pieter
van Buuren
CFO

Pieter van der Merwe
General Manager:
Forestry

Africa White
Groundsman

Rakesh
Bhagwandhin
Logistics Manager

"York is a timber company with the technical depth and know-how to solve your ideas innovatively by using renewable and sustainable product in construction and lifestyle products."

Eric Droomer
Corporate Adviser

Lena Mabuwa
Office Caretaker

Sue Hsieh
Corporate Legal
Adviser and
Company Secretary

"York takes care of its employees and families... it feels like you are part of something great."

Koot van der Walt
Wholesale division
Manager

Greta Ndinisa
Receptionist

Oscar Tait
Sable Site
Manager

"Be responsible in all your actions and let the core values of York guide your behaviour."

Vusi Mashego
Trainee SHE
Practitioner

Simon Mathebula
Creditors Clerk

Frans Mgwambe
Site Safety Officer

"York sees the light in others."

Rams Hlope
HR Officer

Cyril Motha
IT Technician

"The success of York depends on the contribution of every single employee in all levels through the organisation."

"York recognises people's potential and gives them the opportunity to grow and develop."

Khathu Ndlela
Production
Foreman

Andrew Brand
Wholesale division Sales
Manager

Mapule Manzini
Office caretaker/
Receptionist

"York is a lifestyle. It is a living product."

Kirsten Coetzee
Chief Human
Capital Officer

Sam Bhila
Account
Executive

Reinhard Mulder
Strategic
Development
Manager

"The culture of the Company is such that you will reap the benefits of the effort you have put into it."

Jackie Ndlovu
Creditors Clerk

Schalk Grobbelaar
Group Engineer


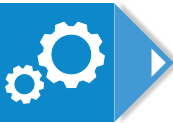




Keagan Moodley
Despatch and Logistics
Co-ordinator

"York is a forward-thinking company led by exceptional leadership."

Rudi Röhrs
Executive
Sales Manager

Deon Breytenbach
General Manager:
Processing


Key performance indicators

Capitals	Strategic objectives	2015	CAGR %	Year-on-year %	2014	2013
 NATURAL	Value of biological asset (R'million)	2 140	1	2	2 103	2 101
	Yields (%)	12,14	(1)	(2)	12,34	12,44
	Total forestry area under control (hectares)	93 988	0	0	94 098	94 028
	Conservancy areas (hectares)	28 938	0	0	28 938	28 938
	TUP – hectares	3 428	(2)	25	2 739	3 629
 MANUFACTURED	Purchase of property, plant and equipment (R'million)	203	58	207	66	52
	Average selling price (R/m³)	2 958	4	7	2 776	2 653
	Market share					
	– Lumber	22,1	2	8	20,5	21,2
	– Plywood	56,0	0	0	56,0	55,3
	Electricity consumption (kWh)	49 062 334	(1)	(1)	49 651 483	51 047 771
 INTELLECTUAL	New products launched (R'million)	36	125	17	30	3
	LogTrace accounting system (R'million)	3	7	13	2	2
	FSC certification	Yes			Yes	Yes
	Diversified product mix – Lumber:plywood (%)	81.6:18.4			80.7:19.3	80.7:19.3
	Staff turnover (%)	2,57	(23)	(61)	6,67	5,60
 HUMAN	People trained – number of people	1 835	(6)	7	1 719	2 218
	Safety – lost time injury frequency rate (factor)	1,75	10	43	1,22	1,33
	Clinics – number of people seen at York clinics	15 568	(2)	(8)	16 985	16 416
	– primary health care	12 959	(3)	(9)	14 242	14 018
	– occupational health care	2 609	3	(5)	2 743	2 398
 SOCIAL	CSI spend in community programmes (R'million)	9,5	9	0	9,5	7,3
	Training programmes spending (R'million)	3,5	7	(25)	4,7	2,8
 FINANCIAL	Profitability – EBITDA/revenue (%)	13	(8)	9	12	17
	Gearing (%)	19	6	19	16	16
	Total cost excluding external log purchases (%)	77	2	(1)	77	73
	Net cash from operating activities (R'million)	121	28	20	101	58
	Market capitalisation (R'million)	894	(9)	(23)	1 159	1 192

Financial highlights



EBITDA
R199
MILLION



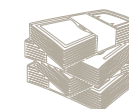
Industry lumber sales volume grew 3,0% year-on-year whereas **YORK SALES VOLUME GREW 13,6%** OVER THE SAME PERIOD

REPAID R29 MILLION IN CAPITAL and **SERVICED** R54 MILLION INTEREST on the Land Bank loan

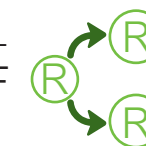


TANGIBLE NET ASSET VALUE
PER SHARE
R7,31

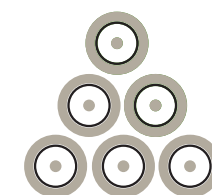
CASH
R192 MILLION



CONTINUED CAPITAL INVESTMENT OF
R203 MILLION



Strategy implemented to **INCREASE INDEPENDENT CUSTOMERS** in all regions has shown to be very successful



8% ADDITIONAL external logs purchased totalling R384 MILLION **impacted EBITDA by R37,5 million**



REVENUE
R1,5
BILLION



CASH GENERATED FROM OPERATIONS
INCREASED
BY **21%**

BIOLOGICAL ASSETS
INCREASED IN VALUE BY
R37 MILLION

EARNINGS INCREASED BY 99% to
R101 MILLION



Financial highlights

continued

	2015 R'm	CAGR %	Year-on- year %	2014 R'm	2013 R'm	2012 R'm	2011 R'm
FINANCIAL PERFORMANCE							
Revenue	1 543	10	17	1 324	1 132	1 113	959
Revenue growth (%)	17	23	–	17	2	16	6
EBITDA	199	–	28	156	187	194	195
EBITDA margin (%)	13	(8)	8	12	17	17	20
Net profit	102	22	100	51	107	138	38
Net profit margin (%)	7	12	75	4	9	12	4
Headline earnings per share (cents)	29	13	107	14	33	42	16
FINANCIAL POSITION							
Total equity	2 420	4	4	2 327	2 277	2 170	2 026
Return on equity (%)	4	16	111	2	5	6	2
Total assets	4 071	4	9	3 720	3 658	3 504	3 316
Return on assets (%)	3	20	151	1	3	4	1
Total debt	743	4	32	563	597	558	614
Cash	192	13	75	110	159	145	103
Operational cost per annum	1 188	9	16	1 025	824	825	766

FINANCIAL GOALS AND OUTCOMES

Some of York's financial goals and the outcomes during the year include:

Financial goal	Outcome
Maintain productive levels of working capital	Cash cycle days (length of time between buying and selling) improved from 42 to 31 days year-on-year, a strong indication of improved working capital management
Ensure sufficient capital is available to fund capital expansion projects	Exceeded all loan covenants; continued to service current-term loan agreement to agreed terms; entered into a new R280 million bridge and term loans to fund the plywood plant expansion project
Productive cash-generating assets	Closed the Golden Rhino sawmill due to loss-making contribution; continue to realise value from York sawlogs through a new custom cut arrangement
Reduce cost of debt and banking	Project initiated to refinance current debt; alternative transactional bankers engaged
Effective and real BBBEE structure	Initiated project to revisit and potentially amend BBBEE structure
Expense management and control	Reduced fixed costs on a real basis year-on-year by 3%; initiated Project Evolve to drive continued improvement of processes, people and productivity
Industry leading management information systems	Improved LogTrace log accounting system controls; initiated a project to upgrade management information systems
Improved internal control environment	Fraud schemes identified and eradicated before value could be destroyed
Staff development, retention and succession	Rewarding career paths mapped for high performing individuals with focused training to ensure skills contribution; new project initiated to review short, medium and long-term incentives

EARNINGS

Strong growth in Group revenue of 17% year-on-year and **10% CAGR** (2015 to 2011) is testimony to growth in **MARKET SHARE DRIVEN BY FOCUSED SELLING EFFORTS**, also coming through from the Wholesale division where **external sales grew by 44%**. Gross profit however reduced due to the mix of sales with a larger contribution coming from the wholesale business.

Operating profit improved year-on-year by 23% driven by **improved processing plant performance** (including successful turnaround efforts at loss making sawmills and warehouse operations), also supported **BY A RECOVERY IN THE AVERAGE SELLING PRICES** year-on-year. The operating margin of 9% however is testimony to the impact the lower margin wholesale business has on the overall Group, but is in line with prior year performance.

NET CASH FINANCE COST INCREASED year-on-year driven by the utilisation of surplus cash in the early part of the plywood expansion project. **Cash flow from operations** however increased by **21%** year-on-year, and on the same basis as per 2011 base, reflecting continued **STRONG CASH GENERATING ABILITY** of the underlying operational businesses.

BALANCE SHEET

Total assets increased by 9% year-on-year, and **4% CAGR** on the 2011 base driven predominantly by the **plywood plant expansion project** investment.

The **biological asset increased by 2%** year-on-year, and also per CAGR on the 2011 base indicating continued progression in the underlying asset value where **GROWTH STILL EXCEEDED HARVESTING** as well as external log procurement.

With the receipt of the plywood project term loan during the year, **interest bearing borrowings increased by 32%** year-on-year, and **3,9% on the CAGR** 2011 base. The productive use of leverage through the plywood expansion project investment is achieved via a term loan receipt from the Land Bank.

Although **net working capital** only **increased 3%** year-on-year, this is off a high base of the comparable year ended on **HIGH LEVELS OF LUMBER INVENTORY**. Plywood inventory ended higher at June 2015 as market demand for especially imported plywood softened.

CASH FLOW

Marked improvement in **cash generated from operations** demonstrated by the **INCREASE BY R31 MILLION** year-on-year.

Actual **cash tax payment** made of R7,2 million during the year is indicative of the utilisation of assessed tax losses and a **RETURN TO IMPROVED PROFITABILITY**. Purchase of property, plant and equipment includes the plywood expansion project investment as well as **FOCUSED OPPORTUNITIES** in **capital equipment** to increase profitability.

Acquisition of subsidiary relates to the purchase of Mbulwa Lodge (including **increased firefighting facilities** through the associated Maggsleigh Dam's portion) at a 50% share from Mondi.

The purchase of financial asset includes additional contribution to the newly established assets and vehicles insurance excess self-insurance fund of R3,75 million, as well as a **R14 million contribution** to the existing **plantation fire risk self-insurance fund**.

Sale of financial asset includes recovery from the self-insurance fund for firefighting costs, In De Diepte fire and for the Roodekop warehouse fire.

CORPORATE ACTION

During the year York launched **PROJECT EVOLVE** in partnership with **Alexander Proudfoot** (a consultancy) focusing on efficiency, processes and productivity. Initial indications are that a successful implementation of project deliverables continue to **drive improved utilisation of people and equipment**.

YORK CONTINUES TO EVALUATE VARIOUS OPPORTUNITIES TO CONSOLIDATE THE INDUSTRY THAT WILL ENHANCE STAKEHOLDER RETURNS.

Chairman's report to stakeholders



Dr Jim Myers (right)
Chairman

TECHNOLOGY IS CRUCIAL FOR COMPETITIVE EDGE

OPERATING ENVIRONMENT

The general economic environment in which York will operate during the second half of 2015 and first half of 2016 will challenge management to continue unlocking growth opportunities.

Slow economic growth in South Africa

Investment in the private sector, which accounts for nearly 66% of overall fixed capital formation, has sustained marginally positive growth of just below 2% year-on-year. Fortunately, government itself carried on investing in infrastructure, but as a proportion of overall capital formation, this is relatively small. To the extent that timber production is correlated with building plans passed, the outlook for the year ahead seems in line with GDP expectations. Year-on-year growth in residential building plans passed weakened year-on-year from 21,1% in 2014 to 15,6% (in Rand terms) and non-residential building plans passed have risen year-on-year from 1,4% in 2014 to 21,2% (in Rand terms).

A key economic measurement applied by York when considering the environment in which it trades, is to consider the trend of manufacturing production of timber and compare it with the trends in building plans passed. There is a correlation between the timber production and building plans passed. The growth in timber production can be seen to be less volatile than that of building plans passed. This is geared towards a number of different industries whose business cycles vary.

The loss of confidence by property developers to keep investing in the face



Approximately 73% of timber sales from structural mills are destined for the local building industry, with the remainder going to remanufacturing, packaging and export.

of perceptions of deteriorating longer-term economic prospects has, however, brought down the growth rate of building plans passed in line with building plans completed. Year-on-year growth in residential building plans completed improved from 7,8% in 2014 to 23,2% (in Rand terms) and non-residential building plans completed deteriorated from 9,9% in 2014 to -7,3% (in Rand terms). Production (in volume) of timber could therefore see continued growth in lumber sales by around 2% to 5% during 2016.

Timber production

Plantations in South Africa are a limited resource, facing the challenge of the continual change in land claim policies and this impacts the perception of the industry's sustainability. York has a warehousing community trust that will address any successful land claims. Fragmentation of sawmills and the industry supply chain kept margins under pressure. The pricing peg lies with the wholesaler and retail customers are taking advantage of the fragmentation, often eliminating the benefits of volume sales. South African sawmillers have thus far not been able to capitalise on international market opportunities given our weak currency. Consolidation represents an opportunity for capital-invested returns to enhance the industry, ultimately resulting in the same ideal situation of having a smaller number of strong, sustainable suppliers. Fewer suppliers of a reduced finite resource will assist in the balancing of market forces, which will result in improved price and quality. This will lead to a more equitable share of value from the forest to the customer.

The increased cost of capital equipment as a result of the continued weakening of the Rand remains a challenge. Future capital expansion will have to be balanced against the weakening of the Rand and achieving sufficient returns.

Energy

Eskom, which supplies 95% of South Africa's electricity, has a net generating capacity of 41 995MW. As a result of the ageing infrastructure of its generating plants, Eskom has had to shed the generating capacity by between 1 000MW and 2 000MW per interval. Disruptions in the production process as a result of load shedding have not only impacted York's ability to meet market demand in 2015, but have also increased cost of production throughout the value chain. South Africa's generation capacity is expected to increase to 80 000MW by 2030 to meet the projected demand growth. The South African government has therefore defined strategies to increase power generation capacity through the Integrated Resource Plan in 2013 and has launched "The Green Agenda". This plan advocates the government's aspiration for a sustainable future by changing the country's electricity generation mix from high coal dominance (85%) to a moderate one (48%). That will include a high level of renewable energy and also nuclear power plants in order to reduce its carbon footprint. York is well positioned to participate in the Renewable Energy Independent Power Producer Procurement Programme.

Labour

Plans to counter the energy and labour risks include the construction of a technologically advanced integrated

Timber processing requires intensive capital investment in technology to optimise sawlog recovery and throughput at the lowest unit cost of production.



Maserame's abbreviated curriculum vitae, together with those of the rest of the Board members, can be found on pages 28 and 29.

site, including a biomass power plant that will supply renewable energy into the South African electricity grid. To this end, York will be able to enhance overall competitiveness of its solid wood processing facilities on a global scale.

Social and other issues

York plays a leading role, working together with Sector Education Training Authority (SETA) in developing skills in local communities that counter levels of unemployment in the Mpumalanga region.

Limited infrastructure maintenance and development in the local communities in which York operates, remains a challenge. York and local government continue to work together to address matters of combined interest.

APPRECIATION

I wish to thank our outstanding Board of Directors for their continued dedication in the past year. We welcome Maserame Mouyeme as the newest member to the Board and look forward to working with her.

York has a vibrant management team, led by a strong Chief Executive Officer in Pieter van Zyl, capable of delivering on our strategy.

I thank them for their efforts in the last year and wish them every success in facing the challenges ahead.

Dr Jim Myers
Chairman

28 September 2015

THE **BIOMASS PLANT** WILL
ENABLE **YORK** TO **DIVERSIFY**
ITS **REVENUE CHANNEL**,
UTILISE ALL OF ITS **FIBRE** AND
MORE **EFFECTIVELY** MANAGE
INFLATION.



Chief Executive Officer's review



Pieter van Zyl (right)
Chief Executive Officer

CEO's REVIEW

PERFORMANCE IN 2015

York Timbers is a well-established organisation with a growth plan for optimisation, focusing on six income generating streams: forestry, lumber, plywood, wholesale, remanufacturing and now energy production.

We achieved an increase of 17% in turnover and 99% improvement in profit for the year ending 30 June 2015. Cash at year-end was R192 million, which is R81 million (74%) better than the prior year. As at 30 June 2015, York traded at a 63% discount compared to the tangible net asset value (TNAV), which had improved from 707 cents to 739 cents per share. York has repurchased 3,7 million of its issued shares at year-end. Given this large discount, York will continue its repurchase programme.

The volume of lumber sold by York increased by 13,6% year-on-year, with the lumber market growing year-on-year by 3%. A portion of additional volumes sold is attributable to imports and external purchases by the Wholesale division. The average selling price for lumber increased by 5% year-on-year. Plywood volume sold by York increased by 7% year-on-year and the average selling price increased by 14% year-on-year. Production at our processing plants increased by 3% from the previous year, in spite of the August 2014 industrial action by wage earners. Load shedding further reduced production by 1,34%.

The Forestry division EBITDA decreased year-on-year by 29%, in line with York's sustainable forestry management practices and outside procurement strategy. Industry log prices for solid wood processing continue to increase for larger diameter logs, at the same time the number of hectares managed for pine long saw log rotation continues to reduce. The York biological asset increased with fair value adjustments of R37 million. The net movement of additional volume due to growth, price increases and costs added R59 million, but was negatively impacted by the change in the discount rate to the value of R22 million.

The Forestry division delivered 1 134 358m³ of own and purchased volumes, 7,2% more than the previous year. York experienced a fire at its Taurus plantation that resulted in a higher temporary unplanted area of 3 428 hectares. Targeted

temporary unplanted area for the 2016 financial year is 2 238 hectares. York will continue to procure external raw material to conserve our own plantations to obtain a sustainable age class distribution in our plantations. In line with this strategy, the Forestry division purchased 8% more external logs than the previous year. External purchases represented 35% (previous year 35%) of total available processed volumes. These external purchases have a negative impact of R28,8 million on the Forestry division's EBITDA. The standing volume of trees increased by 4%, enhancing the long-term value of the biological asset.

The insourcing of various forestry activities has and will continue to deliver benefits to York. The pursuit of more cost-effective operational procedures will remain a priority. The investments made in the current and previous years to increase efficiencies and production flow are already evident in this year's results.

Improved supply chain functionality and traceability were key outcomes of the LogTrace system, resulting in more efficient log inventory control.

INVESTMENT IN FUTURE GROWTH

We embarked on a R300 million upgrade of the plywood plant, which is the first step towards the expansion of the Sabie integrated site and enhancing York's EBITDA generating ability. This project will be completed in the last quarter of 2016. Plywood, apart from diversifying earnings, is an attractive income source with few local manufacturers, and is

sold in a different commodity cycle to the rest of York's products. The plywood upgrade will be commissioned during the last quarter of 2016 and its full EBITDA benefit is to be expected in 2017.

The project is funded by a R280 million term loan of seven years from Land Bank. The funding rate is similar to the existing term loan, interest is capitalised over the first 12 months and no capital repayments are required for the first 24 months of the project. This will allow sufficient time for completion of the capital investment before servicing of the loan commences.

In a cyclical industry it is of utmost importance to find ways to manage this cyclicity. York is committed to develop a more diversified earnings base.

As a result, York will participate in the Department of Energy's Renewable Energy Independent Power Producer Procurement Programme (REIPPPP) in the expedited window bid that closes on 11 November 2015. A bid for a twenty five megawatt electrical biomass power plant will be submitted. This project will strengthen York's EBITDA generating capability and extract increased value from available biomass in the Group. This presents a unique opportunity with a 20-year annuity income stream, backed by a government guarantee. This project will provide York with a viable solution for its by-products and substantially improve York's raw material optimisation capability. At the same time, York will be a contributor into the national power grid and provide stability to the electrical network in Mpumalanga.

PROJECT EVOLVE

York embarked on Project Evolve to improve planning and scheduling, contractor engagement, management and supervisory effectiveness, problem solving as well as improve reaction times to variations in performance achieved by the implementation of management operating systems. Benefits of this project create a dynamic platform to build York's growth strategy. Attention to the quality of training, as a key component for change, was used to drive

THROUGH THE **INNOVATIVE APPLICATION OF TECHNOLOGY ENABLERS, IMPROVED INVENTORY CONTROL OF LOGS FROM INFIELD HARVESTING TO TRANSPORT TO LOG YARD STOCK MANAGEMENT HAS BEEN ACHIEVED.**

a continuous improvement philosophy that is embraced by the organisation.

VALUES

York is an organisation that thrives on commitment, innovation, connectivity, integrity and responsibility. These values are driven by our passion for our country, business environment and colleagues. This year our staff were truly tested and for this reason have matured as an organisation that equipped us to embark on the next growth phase. Thank you for your commitment and loyalty towards York. The drive and determination of our team with its combined skillset will ensure the execution of York's growth strategy.

I thank our Chairman and the directors for their support and governance of the organisation.

Pieter van Zyl
Chief Executive Officer

28 September 2015







We are fortunate to have a strong and dynamic Board of Directors that have guided and assisted us in creating a vibrant organisation.

Chief Executive Officer's review

continued

FUTURE OUTLOOK

York's focus over the short to medium term will be on the following:

Capitals	Strategic objectives	Strategic initiatives (to be) undertaken
 NATURAL	Protect and enhance the biological asset in order to extract optimal value on a sustainable basis Increase plantation landholdings in Southern Africa	<ul style="list-style-type: none"> Improvement on tree breeding Conduct research in association with universities and research centres Improved silviculture practices and regimes Pests and disease resistant species Weather fluctuation tolerant species Development of forestry health index
 MANUFACTURED	Expand and utilise facilities optimally, both in function and in location	<ul style="list-style-type: none"> Execution of the plywood expansion project Consolidation of sawmilling operations in the Escarpment Expanding sawmilling operations in the Highveld Diversify earnings base with the biomass power plant project Investment in remanufacturing capabilities
 INTELLECTUAL	Deliver the best products as efficiently as possible	<ul style="list-style-type: none"> Product development, including value-added wood products to increase product offering Focus on service levels with initiative, versatility and adaptive to market developments Improvements in controls in systems
 HUMAN	Attract, develop and stimulate the right minds	<ul style="list-style-type: none"> Establishment of CEO forum – internal stakeholder engagement York Action System with focus on key performance areas Establishing Training Academy with main focus on technical skills Growth of talent and succession plans Leadership development Development of organisational health index
 SOCIAL	Mindful of the greater community affected by our operations	<ul style="list-style-type: none"> York Adventure Club, Sasol Rally, York Long Tom Marathon, York Enduro and various other adventure activities Community forums and projects. Upgrade of the Sabie Country Club facilities Healthcare, infrastructure and education
 FINANCIAL	Deliver a sustainable return to shareholders	<ul style="list-style-type: none"> Improve total shareholder return Continual growth of TNAV Compounded growth in EBITDA Optimal use of capital structures

Biological assets

BIOLOGICAL ASSET RECONCILIATION

	2015 R'000	2014 R'000
Prior year value	2 103 092	2 100 870
Change in value	42 452	2 222
Purchased plantations	–	4 206
Growth	67 584	131 897
Revenue and price	152 217	53 659
Operating costs	(155 413)	(35 314)
Discount rate	(21 936)	(152 226)
Closing value	2 140 067	2 103 092

INTRODUCTION

The area under commercial forestry in South Africa has declined by 249 695 hectares because of the exit strategy implemented by the Department of Agriculture, Forestry and Fisheries (DAFF), which resulted in the removal of state-owned plantations in ecologically sensitive and marginal forestry areas that are being returned to their natural state, as well as the removal of forest around designated streams and wetlands. Furthermore, a number of private growers have converted from forestry to other crops. All primary catchments in Mpumalanga are closed for new afforestation.

Factors impacting tree growth

The success of commercial forestry is dependent on matching the correct commercial tree species with the growing conditions and other factors such as markets, logistics and infrastructure.

The main criteria for consideration when investigating a site's ability to support tree growth are climate and soils/lithology. Mean annual rainfall is one of the most limiting factors in South Africa and needs to be considered in conjunction with ambient air temperature and altitude when selecting a species for commercial production. Each species has a particular optimum range of physiological activity for fast and continuous growth. Frost tolerance, therefore, is an important consideration to ensure tree survival post-planting at higher elevations. Certain plantation areas are prone to hail.

MOST PESTS HAVE BEEN
SUCCESSFULLY MANAGED
BIOLOGICALLY WHILE DISEASES
ARE MANAGED THROUGH
BREEDING PROGRAMMES.

Edaphic factors for consideration include soil effective rooting depth, texture, structure, drainage, fertility, stones and lithology. Soil depth is a limiting factor for all species and is important, especially in areas that receive less rain and/or extended periods of drought.

Fires, if not controlled, can be a threat to plantation forestry, but over the years the forestry growers have developed a sophisticated network of electronic fire towers and central control centres with access to dedicated firefighting helicopters and fixed-wing aircraft, thus reducing the risk.

York has been experiencing baboon damage for a number of years, which negatively impacts on lumber recovery.

Silviculture systems and regimes

Directly after planting, young seedlings are unaffected by other vegetation and grow as free standing trees. This growth, however, depends on the necessary weed control. As trees continue growing, they start competing with each other for space and other essential resources. Initially, this competition could be advantageous

19
MILLION TONS
sustainable
annual cut from
plantations
VS
demand for
22
MILLION
TONNES

Biological assets

continued

as it could stimulate growth, but it does become negative when the resources are over-utilised. Tree spacing that is too tight will suppress diameter growth and lead to tall slender trees, whereas more open tree spacing will provide room for the trees to add girth. The above principle is used by forestry companies to optimise volume and log dimensions to suit their specific needs.

When trees are grown for bulk volume, as in the case of the pulp growers, the clearfell age would be planned to coincide with the switch over point from a positive to negative growth rate, whilst when trees are grown for saw timber, this switch over could indicate the optimal timing for the removal of some trees through a thinning. Forestry companies also investigate the intensity and number of thinnings in order to achieve the desired tree dimensions in the shortest possible time. Clearly the rate of growth afforded by the forest site impacts heavily on the time required to reach these optimal tree dimensions.

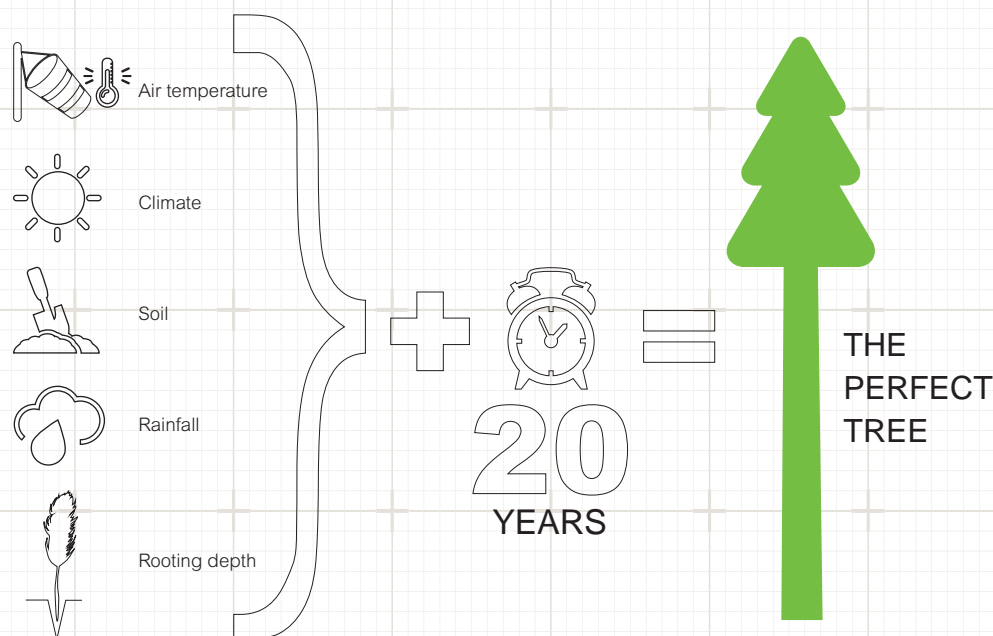
The growth potential of a site as well as the actual growth rate is referred to



as the site index (SI), referenced to a specific base age (York uses a base age of 10 years for Eucalyptus and 20 for Pinus species). The SI in York for pine is typically in the range 20 to 35 metres high at age 20 years. This classification is at the higher end of suitability for the growth of commercial plantations.

The optimised recipe for growing trees is site/specie matching and that determines the number of trees planted per hectare, the timing and intensity of thinnings and the optimal age for clearfelling the forest stand. This practice is referred to as a regime. If pruning is conducted, the timing and height of pruning would also form part of this regime.

Pruning is done primarily to avoid the formation of loose knots, which lead to holes and weaknesses in the lumber products, but is also performed to give easy access to a forest stand and to reduce the fire risk by raising the tree crown from the ground. Loose knots are formed when the bole of a tree increases in diameter around a dead branch with the newly deposited wood of the bole not fusing with the branch.



Planning and management of typical compartment

The life cycle of a sawlog regime is 1,5 to 2 times longer than that for pulp in order to yield logs suitable for solid wood processing. This is in contrast to pulp growers that plant more trees per hectare over a shorter rotation period. In order to optimise value of logs for solid wood processing, longer growth periods are required to transform trees into higher value logs. Log diameter translates into higher value logs, in that the greater the diameter, the better potential solid wood processors have in extracting value.

The importance of tree breeding in the forestry value chain

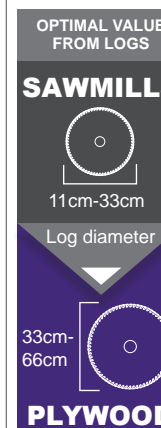
Tree breeding directly and indirectly impacts the forestry value, due to the heterogeneous characteristics of biological stocks and the diverse growing conditions to which plantation forests are subjected. These attributes can be directly related to the tree health, stand development, productive growth and wood quality characteristics. In addition, physical tree characteristics will indirectly impact operational productivity and costs.

Nursery

Tree breeding has a direct impact on the survival, productivity and physical development of seedlings and cuttings produced in the nursery. Different pine species vary in their susceptibility to pests, disease and frost damage. Therefore the hybridisation of commercially planted pine species with more resistant variants will have a direct impact on the survival and quality of reproductive stocks. Hybrids produced from cuttings might be more resistant to pest and disease. However, the rooting network will be less developed than that of seedlings, warranting careful site specie matching and planning prior to establishment.

Silviculture

Silviculture refers to the establishment and management of a plantation to ensure that biological stocks are healthy and producing high quality timber. This will include the establishment



method to ensure high seedling survival rates, the application of herbicides and pesticides to reduce seedling/cutting growth strain, pruning of branches to improve timber quality and the thinning of trees to remove inferior quality trees, manipulate tree form and promote higher growth rates.

Tree breeding promotes the production of trees with superior wood quality, growth and resistance to biotic risks (pest and diseases) and abiotic risks (frost, wind and fire). By selectively breeding and hybridising more resistant pine species, trees with superior wood quality can be established at previously growth limiting and high-risk sites, leading to improved growth rates of up to 30% (site species matching).

Low seedling mortality will also reduce establishment costs and therefore lead to higher productivity during establishment, as the re-establishment of seedlings/cuttings will be reduced. In addition, physical characteristics such as branch angle, frequency and size vary between pine species. By selectively breeding and hybridising trees with smaller branches, pruning productivity could also be improved.

Frequency and intensity of silviculture regimes will also be influenced by the breeding of trees with greater growth rates. Canopy closure will be reached earlier in the compartment's life cycle, reducing weeding frequency. Pruning

Biological assets

continued

and thinning of trees are also dependent on tree size. Therefore, faster growing trees will reduce the time lapse before pruning and thinning is initiated.

Harvesting

Harvesting productivity is a function of tree size. With increasing tree size, harvesting productivity increases and cost decreases. The breeding of faster growing trees will ensure that trees are larger at the time of felling and therefore will reduce harvesting costs.

When harvesting trees with a harvesting head, poor form will cause feed roller slippage due to irregular feed roller traction. De-limbing knives could also potentially cut into the log surfaces when trees with poor form are encountered.



**TREE BREEDING CAN
REDUCE RESIDUAL
DAMAGE TO LOGS DURING
MECHANICAL CUT TO
LENGTH HARVESTING BY
IMPROVING TREE FORM.**

Wood quality characteristics vary throughout individual trees. Wood density increases from the central pith outwards and with tree height. Clear wood proportions decrease with tree height due to branches located in the canopy giving rise to live knots. Branch frequency, size and distributions also vary between different pine species (branch whorls versus distributed). When breeding trees, it is always important to keep the end product in mind, as product specifications vary according to different production lines and are often influenced by wood quality. Therefore, tree breeding has an impact on tree optimisation as it is closely related to product quality.

Mortality of mature trees due to biotic and abiotic risks will also lead to waste, as these entities will often not meet the desired quality specifications. In addition, these trees will still be harvested, as the compartment block will need to be clearfelled for re-establishment of seedlings after harvesting, leading to additional harvesting costs.

Mill

Tree breeding impacts tree growth, tree form and wood quality in relation to wood density, the amount of compression wood produced and knot characteristics. Log recovery and product quality are directly influenced by physical log properties such as log size, form and wood quality.

Larger base and middle section logs are often suited for more diverse production lines, which could potentially lead to greater recovery rates due to more homogeneous wood characteristics and higher levels of clear wood.

Log shape in relation to log taper and form will influence recovery as it will impact the available homogeneous cutting plane along the log length and the wood stability as log shape reflects the homogeneity of grain distributions (wood stability) throughout the tree. Wood modulus of elasticity (MOE) or wood stiffness also decreases with increasing log taper. Irregular grain distributions lead to irregular wood drying rates, therefore leading to cracking, twisting, warping, crook and sweep of structural timber during drying.

Tree growth rates, form and wood quality vary across pine species. Therefore pine species with superior wood quality and form will always receive highest priority in the breeding programme.

Tree improvement

There are various tree improvement methods available, including selective breeding, hybridisation

and genetic modification. Currently only selective breeding and hybridisation are implemented at York. Genetic modification is excluded due to FSC policies.

Selective breeding

Tree breeding by artificial selection of a specific individual in a tree population to produce offspring, with the aim to develop specific phenotypic traits in relation to tree growth rates, form and wood quality, is referred to as selective breeding. Selective breeding is an interspecies breeding process and produces the largest quantities of reproductive stock in the York breeding programme.

Hybridisation

York Timbers currently implements interspecific hybridisation between different pine species. Pine species with desired characteristics in relation to growth, tree form, wood quality, biotic and abiotic resistance are hybridised to improve tree growth, timber quality, biotic and abiotic resistance.

Genetic modification

Genetic modification refers to the engineering of a tree's DNA to include genes into the tree's DNA which do not occur in its natural state. Genetic engineering has previously been implemented to improve:

- Tree growth;
- Wood quality;
- Disease resistance;
- Pest resistance;
- Drought and salt resistance; and
- Conservation efforts of endangered species.

Selective breeding

In 2011, York took over the Mondi pine breeding programme. Improvement of *P. patula*, *P. elliottii* and *P. taeda* stocks via selective breeding was included in the programme. However, York is continuously looking for new species to incorporate into the selective breeding programme. From the first introduced *P. patula* stock, growth performance was improved by up to 45%.

Hybridisation

York is continuously producing new pine hybrids, with the aim to improve tree growth, wood quality, biotic and abiotic resistance. Hybrids produced are also planted and regulated in diverse growing conditions in the form of progeny trials. Hybrid pines outperform pure pine species by up to 30%



due to growth vigour and therefore hybrids are of utmost importance for the future of quantitative and qualitative mill timber stocks. The two most important hybrids identified were *P. patula* × *P. tecunumanii* and *P. elliottii* × *P. caribaea* hybrids. *P. elliottii* × *P. caribaea* outperforms *P. patula* × *P. tecunumanii* hybrids on warmer sites in terms of growth. However, the timber quality of *P. elliottii* × *P. caribaea* trees is inferior to that of *P. patula* × *P. tecunumanii* trees. *P. patula* × *P. tecunumanii* trees, on the other hand, produce high quality timber, which is comparable in quality to timber produced from *P. patula*, as *P. tecunumanii* trees also produce high quality timber. In addition, *P. tecunumanii* trees are more resistant to *Fusarium circinatum*, giving the *P. patula* × *P. tecunumanii* hybrid the added benefit of disease resistance. *P. tecunumanii* trees from low and high elevation ecotypes are currently used in the hybrid programme for more effective site species matching in relation to frost resistance.

VALUE ADDING FACTOR TO THE BIOLOGICAL ASSET: GENETIC BREEDING

Breeding methods

Before starting a breeding programme to improve a particular species, it is important to thoroughly study the species. An understanding of the variation within and between individuals, as well as the causes of variation, will aid in deciding which breeding methods will be successful. Furthermore, the success of breeding efforts to improve a particular trait depends on the heritability of that trait. Heritability can be defined as the "measure of the relative degree to

Biological assets

continued

which a character (or characteristic) is influenced by heredity as compared to the environment".

Classical breeding

Classical breeding methods include mass selection, interspecific (between species) hybridisation and intraspecific (within species) hybridisation. York's *Pinus patula* breeding programme was started using mass selection. This method involves selecting outstanding individuals in native forests and then establishing first generation provenance trials. After eight years, selections can be made. Seed of these trees are then used to establish second generation progeny trials. The first generation selections can also be grafted into a seed orchard that will provide improved seed. This cycle of selection, testing and seed orchard establishment is repeated for each successive generation.

Good performing individuals within a species (intraspecific) can also be crossed through controlled pollination. This process is currently being used in our pure species programmes. New traits such as disease resistance or cold tolerance can be introduced by crossing two different species (interspecific hybridisation). York has an extensive hybrid programme, which is elaborated on below.

New possibilities: modern breeding

With the development of molecular technologies such as genome sequencing, marker assisted selection and transgenic technologies, improvements can be made over a much shorter period of time. Once the genome has been sequenced, markers are developed that can identify certain genes that influence a particular trait. Individuals can then be selected based on their genetic make-up without having to wait to evaluate their performance in-field.

Through genetic modification, genes that improve yield and/or disease resistance can be taken from a different species and inserted into the species desired to be improved. This then produces a transgenic plant.

Through York's association with the Forest Molecular Group (FMG), we may have access to these technologies in the future.

VALUATION PRINCIPLES

Valuation methods

International Financial Reporting Standards (IFRS) require a biological asset to be measured in accordance with International Accounting Standard (IAS) 41 Agriculture, and valued according to IFRS 13 Fair Value Measurement. A valuation model is used

to determine the value of the biological asset. A discounted cash flow model is used based on the expected revenue and costs to sell the plantation forests. These values are then discounted into today's value using an appropriate discount rate.

Annually the assumptions included in the model are reconsidered for their appropriateness and application, given current and anticipated market conditions. Price assumptions, such as expected price movements and cost inflation over the 25-year valuation period, need careful scrutiny as a small percentage change in the assumptions could have a big impact. A discounted cash flow model most accurately results in fair value, as required by accounting standards. It is a widely accepted approach and provides consistent information about the true value of the plantation. York's Board approves the assumptions included in the model.

Biological assets are measured at fair value less costs to sell. IAS 41 defines fair value as the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm's length transaction. In measuring the fair value of biological assets, IAS 41 prescribes a hierarchy of methods with increasing levels of subjectivity.

Most preferable is the most recent market transaction price of the asset (mark-to-market). Secondly, prices of similar assets or sector benchmarks should be used. Thirdly, if market prices are not available, the standard prescribes the use of a discounted cash flow model (mark-to-model). The hierarchy is set out below. York has chosen the mark-to-model method on a discounted cash flow model as the best way of estimating the fair value of the forestry asset.

Valuation approaches and techniques allowed are:

Market approach

If there is no active market, then an entity could measure fair value, using techniques such as prices of recent market transactions, market prices for similar assets or section benchmarks. In using such prices, an entity makes adjustments to reflect differences in characteristics and/or stages of growth of the assets. These methods would be appropriate if there are recent transactions or if markets exist for similar assets.

The **market approach** values the asset at current market prices. The difficulty with this approach is that recent transactions and details are generally not public information. The ages of trees, regime planted, enumeration data, species and distance to market are all variables that impact value.

Income approach

The fair value of a biological asset is likely to include not only the asset's current harvest value, but also a value for potential additional future biological transformation that a market participant would include in the valuation. This requires a number of factors to be considered, such as:

- Risks associated with the asset – e.g. weather and disease;
- Estimated yields; and
- Estimated costs of bringing the asset to its intended condition.

These uncertainties related to future cash flows are reflected in either the discount rate and/or the estimate of expected cash flows.

In estimating future selling prices, the assumptions used should be consistent with those of market participants. These will depend on the characteristics of the biological assets, including their stage of development, the markets in which they are sold and the sources of possible pricing information. The assumptions that market participants would make about future selling prices will depend on a number of factors including: the expected time to sell the asset; events or conditions between measurement date and the expected date of sale; and effects of seasonal changes in pricing.

The **income approach** represents the cash flow generation ability of the asset against an appropriate rate. This method represents the discounted future value of trees at maturity age.

The net standing value principle previously applied took a snapshot of the current volume and log class distribution of the trees at current roadside values. The advantage of this method is that the value is based on current information and assumptions are limited. The disadvantage of this approach is that the growth potential is not presented to the user of the financial statements. The value will also change from year to year as the asset matures.

A method to measure fair value requires a certain level of stability and consistency over time to create measurements that are comparable from year to year. To this end, long-term trends are carefully considered when applying assumptions.

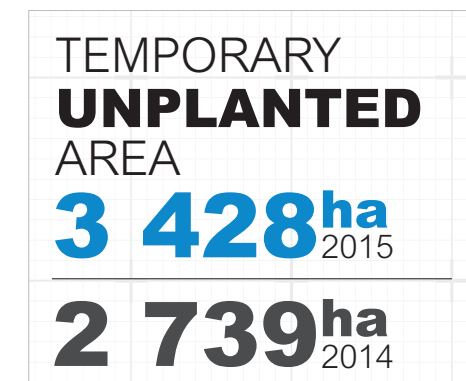
Cost as an approximation of fair value

IAS 41 acknowledges that in some cases cost may approximate fair value, and provides the following examples:

- Little biological transformation has taken place since initial recognition; or
- The impact of biological transformation is not material – e.g. the initial growth in a 25-year pine plantation production cycle.

Cost as an approximation of fair value cannot be applied to value trees after the first three years due to the extent of biological transformation that occurs. The cost accrual basis used in the industry to determine value is not a recognised valuation method for accounting purposes. This method aims to attach value based on costs and the return on those costs expected by investors over the life of the asset.

There are various factors that can affect biological assets. As previously mentioned, genetic breeding is a value-added factor to the biological asset as it improves the yield of our plantations. Temporary unplanted area (TUP) is also a factor influencing the biological asset. Additional gum clearfelling during the past year and fires contributed to the year-end TUP being higher than planned and ended at 3 428 hectares. The increased TUP had a negative impact on the biological asset valuation. We plan to achieve the target TUP of 1 720 hectares by the end of 2016. These areas will all be planted according to the right site species matching that will contribute to improve the biological asset.



Forestry division

IT ALL STARTS WITH A SEED



INCREASE

IN GUM PULP PRICE LED TO HIGHER GUM PULP SALES
WITH A POSITIVE IMPACT ON EBITDA



FIRE

remains the main threat
TO PLANTATIONS

IMPROVED PLANNING AND
EFFICIENCIES IN
WEED CONTROL
LED TO BETTER
GROWTH

AND REDUCED WEED INFESTATION



0,5% STOCK GAIN OF TIMBER LOGS
AT ROADSIDE OR ON DEPOT **DUE TO**
IMPROVED CONTROL MEASURES
THROUGH THE LOGTRACE SYSTEM THAT
WAS **DEVELOPED IN-HOUSE**

HYBRIDS ARE THE FUTURE



2 737 HECTARES PLANTED
DURING THE PAST YEAR, OF WHICH
1 016 HECTARES WAS PLANTED
WITH PINE HYBRIDS THAT COULD
YIELD **20% TO 30% MORE GROWTH**
THAN PURE PINE SPECIES PLANTED.

2015 HIGHLIGHTS

- The in-field surveys to update the forestry site data base have been completed on the Highveld. The initial surveys started in 2012 and all of York's landholdings have now been completed. Refinement of the project is ongoing and the current focus is to complete detailed frost maps for all the landholdings.
- Increase in gum pulp prices continued, which led to higher gum pulp sales from our Highveld plantations, with a positive impact on EBITDA.
- Substantial improvement on control measures of animals and insects causing damage to trees was implemented over the past year. We are continuously monitoring damage and implementing mitigating measures.
- Improved planning and efficiencies in weed control of especially young plantings continued, which led to better stocking and growth and reduced weed infestation of the plantations.
- The water loading facilities of all airstrips in the Escarpment have been upgraded. This will lead to reduction



Improved
WATER
loading
facilities at
air strip
= improved
firefighting
ability

in time to refill aircraft with water during firefighting operations, with improved turnaround time and better utilisation of aircraft.

- The Forestry business unit successfully passed its annual FSC audit during November 2015. This was the third audit in a second five-year cycle at York and is very encouraging as we look towards the future, striving for continuous improvement and efficiency in all our operations.
- Procured sufficient volume of timber from external timber growers to fill the shortfall that could not be supplied from own landholdings, and therefore met the demand of the York processing plants. Will continue to secure timber standing from private growers and in negotiations for multi-year contracts.
- Over the financial period, had a 0,5% stock gain of timber logs at roadside or on depot due to improved control measures through the LogTrace system that was developed in-house.
- As part of the modernisation project York procured equipment for road maintenance and construction as well as a forwarder to short haul pulp logs to depots.
- Completed a detailed soil survey of the Goedgeloof plantations that was outstanding.
- Filled some vacancies with post-graduate students from the University of Stellenbosch. Their specific skills will be enhancing the research and modernisation initiatives in the Forestry division.

Forestry division

continued

CHALLENGES IN 2015

- Drier than normal conditions were experienced over the past year. The actual 12-month moving average rainfall was significantly down on the long-term average and was at 65% for the Escarpment and 80% for the Highveld. These dry conditions have hampered our fuel reduction programme and had an impact on our planting programme.
- Incidences of theft of especially diesel, chainsaws and batteries/hydraulic pipes of equipment continue to show a rising trend in all the forestry areas. York is participating in the Mpumalanga timber theft forum, where land owners, the SAPS and security companies are working together to reduce incidences of theft in the timber industry. York has also secured the services of a security company with mobile units and foot patrols deployed in the plantations to reduce impacts of theft and illegal trespassing.
- The Forestry department had five lost time injuries during the past year and a constant focus will remain to ensure all hazards are identified and mitigated and all staff apply the concept of **SAFETY FIRST**.
- Fires remain one of the main threats to plantations. Although all the necessary fire precautionary measures were taken, York had 61 fires over the reporting period. Total area burnt was 2 072 hectares, of which 1 406 hectares was planted with trees. Of these, two mayor fires contributed most to the area burnt:
 - Highveld fire on 28 August 2014. When the fire ignited (cause unknown) at approximately 13h13 the wind was gusting at 70km/h; and over the following day increased to gusts of 90km/h. Aircraft was grounded due to the strong winds. The fire spread very rapidly under low fuel load conditions due to the strong winds and low RH. Total area burnt on York land was 359ha, of which 309ha is

LOW PINE PULP PRICES AND OVER SUPPLY OF PINE PULP LET TO INCREASED PINE PULP STOCK LEVELS.



commercial area, including 104ha temporary unplanted. Area lost was 205ha.

- The second fire occurred on 7 October 2014 at the Taurus plantation. The cause of the fire was due to lightning. Difficult terrain and adverse weather conditions made fire suppression activities very difficult. Total commercial area burnt was 1 392ha. Area lost was approximately 1 000ha, of which 80% is salvageable.
- York will continue to improve fire prevention measures that include identifying hazards and risks, fuel load management, constructing and burning of fire breaks, awareness campaigns, planning, training and other fire suppression activities. Special emphasis will be on developing improved fuel load indexes for total York landholdings to determine hazards and plan appropriate mitigating measures. Firefighting capacity will also be increased with the order of five 3 000 litre strike units that will be delivered by the end of August 2015.
- Low pine pulp prices and an oversupply of pine pulp in the market continued and led to increased pine pulp stock levels. York is exploring alternative markets for the pine pulp that includes use as shavings, sell to small sawmillers for mainly wet off saw and pallet market and to particle board and thermal energy producers.

KEY PROJECT DEVELOPMENTS

The following key project developments are planned over the next two years:

Develop methodology via a pilot study of topographic position and shape analysis for site-based yield estimations

Together with effective precipitation and equivalent soil depth, slope shape and steepness and topographic position have been shown in transect studies to strongly influence tree yield on the Escarpment; similar findings also

apply on the Highveld. By meaningfully mapping these topographic effects, yield potential can be more accurately determined and used to optimally manage natural resources for delineating uniform production compartments, comparing actual yields with the site's potential to identify under-performing stands and plan research programmes.

Define and construct estimates per PLU for quarterly maximum and minimum temperature limits for the pine genotypes currently used by York

The critical temperature factors for optimum tree growth, i.e. the summer maximum (especially for disease, but also tree form) and winter minimum (ability of the tree to grow under cool conditions). Elevation and mean annual temperature (MAT) are relatively coarse measures or approximations of defining the optimum temperature conditions for pines, due to the effects of aspect, exposure to hot valleys and/or plains/Lowveld, and cold air drainage. It is therefore more accurate to define limits for the mean maximum temperature over the three warmest summer months and coolest winter months. These limits also allow for ease of extrapolation of genotype suitability to sites outside of current York holdings.

Site-specific forest management

In order to optimise yields, it is necessary not only to plant the best genotypes available, but also to allow these to perform optimally by employing the optimal establishment silviculture and working circle for the specific site conditions. Where these are correctly selected and applied, optimum yields and timber quality will result, with the best returns on compartment expenditure.

MODERNISATION PROJECT

All York's forestry employees are paid above the minimum wage and the implementation of this legislation impacted York's contractors rather than York's own employees. All York's forestry contractors are compliant with the minimum wage requirements.

As wages are expected to increase substantially in the future, it is an imperative that new innovative solutions be introduced to manage and absorb future wage increases.

In order to mitigate all of the above, York has embarked on a modernisation project during the past financial year. The project included a review of all current systems and the introduction of new technology in the forestry operations.

The objective of this project is to improve the quality of operations and to be more cost-effective. It will also position York better for future cost escalations. Some of the outcomes of the project will be implemented during the new financial year.



FIRST MODERNISATION PROJECT

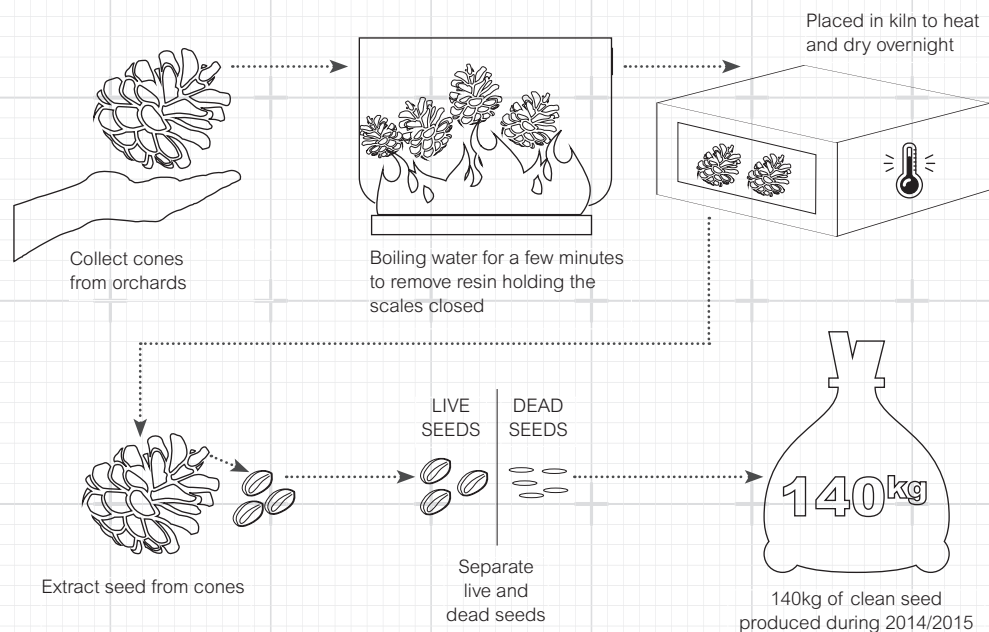
With the new planting tool applied in the Highveld, one person plants 940 seedlings, one hectare per day.

THE PINE HYBRID PROGRAMME

It all starts with a seed...

York has seed orchards of various species. Currently, our most productive seed orchards are those of our main pure species, *Pinus patula*. Seed from these orchards supplies Klipkraal nursery with improved seed for our plantations and the remainder is used to generate income from sales to other companies. With the development of our pine hybrid programme, the need was identified to establish seed orchards of alternative pine species as well. These seed orchards will serve mainly as sources of pollen, which will be used in our controlled pollination programme for the production of hybrid seed. Alternative species were chosen based on the improvement in growth and/or disease tolerance that they could potentially bring into the programme. Alternative species for which new seed orchards have been established over the last few years include *Pinus tecunumanii*, *P. maximinoi*, *P. oocarpa*, *P. leiophylla*, *P. herrerae*, *P. elliottii* and *P. taeda*. In addition, new seed orchards of our top performing *P. patula* families are also being established.

Our annual *P. patula* seed harvest commences in July and lasts for about three months. Cones are collected from the various orchards and taken to the seed extraction site. Here the cones are placed

***P. patula* seed harvesting and processing**

in boiling water for a few minutes to remove the resin holding the scales closed. They are then placed in a kiln to heat and dry the cones overnight, after which they open and release the seed. Once the seed is separated from the cones, they are manually de-winged and put into a blower to separate live and empty seeds. During the 2014/15 season about 140 kilograms of clean seed was produced.

Orchard establishment

In order to establish a clonal seed orchard, copies (or clones) need to be made of the selections that have been made in trials. This is done through grafting. Scion is collected from selections and grafted onto rootstock using the cleft grafting method. After a few months, the grafts are ready to be established into a new clonal seed orchard. When compared to a seedling seed orchard, the grafting process significantly reduces the time it takes to produce seed. This is due to the fact that the scion material that is grafted onto the rootstock is genetically older and therefore the genes for flower and pollen development are already switched

**DNA FINGERPRINTING**

A method to determine the integrity of the various clones in the orchards.

on. In the last year, numerous grafts have been made of *P. patula* and alternative species for new orchard establishment.

Quality control: DNA fingerprinting

The establishment of new seed orchards requires a significant investment of time and costs, and plays a vital role in the future of our breeding programme. It is therefore necessary to ensure that the identity of the material included in these orchards is correct. Human error may cause mistakes during scion collection, grafting and labelling, and therefore a method is needed to verify the identity of individual trees. This can be done through DNA fingerprinting.

Needles are collected from trees in our trials and orchards and sent to the FMG (Forest Molecular Group) laboratory at the University of Pretoria. DNA is extracted from the needles and an allelic profile (or fingerprint) is generated for each sample. This is then compared to a reference sample which is known to be correct. Should the sample profile not match the

reference profile, it is either kept as a new genotype or it may match an alternative genotype that has been previously fingerprinted.

To date, 400 samples have been submitted for fingerprinting. Eventually the Group aims to submit samples for all the clones in our orchards in order to ensure the integrity of our breeding programme. With the development of the fingerprinting programme it is now also possible to use fingerprinting to distinguish between pure species and hybrid seedlings of some species. This will be used to ensure the integrity of our hybrid programme in future.

Testing in trials

Trials form an integral part of any breeding programme as the results offer valuable information regarding the performance of species and families being tested for various traits. Through past breeding efforts, we now have third generation selections in our *Pinus patula* orchards. Genetic gains trials have shown that this has resulted in just more than 50% gains in volume over unimproved material.

Every year we continue to establish new trials, testing *P. patula* families as well as families of alternative species that will contribute to our hybrid programme. The access we have to the majority of alternative species seed is mainly as a result of our collaboration with Camcore and the ICFR. In the last year, three *P. patula* trials have been established (one Camcore and two York) as well as one Camcore *P. maximinoi* trial.

Considerable effort has also gone into a site-species matching project over the last couple of years. The results will also help us to improve trial design, layout and data analysis.

Hybrids are the future

Hybrid seed can be produced artificially through the process of controlled pollination. This involves isolating the female flower on the mother tree with a paper bag just before it emerges from the bud. Approximately two weeks later, pollen from a different species is applied through the bag by a hypodermic needle. This process is



R3,152 million
spent in forestry research.



40 HYBRID COMBINATIONS

Several hybrid trials have been planted over the last five years, testing in excess of 40 hybrid combinations.

BIOTIC

RISKS:

PESTS AND DISEASES

ABIOTIC

RISKS:

FROST, WIND AND FIRE

repeated two or three times over two weeks and after another three weeks the bags are removed. The female flowers develop into cones and, after two years from pollination, the cones are ready to be harvested. Numerous controlled crosses are made every year, producing seed that will bring greater diversity to the breeding programme.

Due to the fact that two different species are being crossed, there are certain reproductive barriers that cause hybrid cones to yield less seed than a pure species would. It is therefore necessary to convert hybrid seedlings into hedges, from which many cuttings can be set. Cuttings are then used to establish field trials, from which selections are made after eight years. A total period

Forestry division

continued

of 12 years is needed to identify promising new hybrids and after another five years, these hybrids can be deployed commercially.

A cross between two different species often results in hybrid vigour. In other words the hybrid offspring will outperform both parents on the same site. Further gains can be made by identifying specific families within the hybrid that perform better than the mean of the hybrid as a whole. In addition, hybridising sub-temperate and tropical species (such as *P. patula* and *P. oocarpa*) will allow us to extend the planting range of each, making them adapt more readily to climate change.

York has made a significant number of family crosses within those hybrid species that are being commercially deployed or show good potential. In addition, through our association with outside parties such as Camcore and the CSIR, we have also been able to access various hybrids to test and include in our breeding programme. York is also participating in a collaborative project, where approximately 300 *P. patula* x *P. tecunumanii* families are being produced by Sappi using Camcore material. We have made good progress in grafting the trees used to make these crosses, which will put us in a position to reproduce these families on our own land without delay.

Fighting *Fusarium*

Fusarium circinatum is a fungus that causes significant mortality in *Pinus patula* seedlings in the nursery and in the field after establishment. There are, however, families that show tolerance to this pathogen. As *P. patula* remains an important species for further breeding, it is important that we are able to identify these families. One method that can be used to do this is through the artificial screening of seedlings.

In March and November every year, we send seedlings of various *P. patula* families to the screening facility at the University of Pretoria. Here seedlings are artificially inoculated with *Fusarium* spores and then assessed for tolerance after a few weeks. The fungus causes the development of a lesion on the stem of the seedling, and the length of this lesion can be measured. Seedlings of susceptible families will develop long lesions and those of tolerant families will only develop short lesions or no lesions at all.

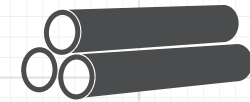
From results to date, we have been able to identify 21 tolerant families. Cuttings of these families will be used to establish a *Fusarium* tolerant orchard at the Klipkraal nursery. This orchard will be used in the controlled pollination programme.



546 400m³
VOLUME OF THE
**CHRYSLER
BUILDING**



633 646m³
VOLUME OF LOGS SCANNED
FOR THE 2015 FINANCIAL YEAR



Reducing frost risk

York is currently testing various hybrid combinations in our trials. As many of these hybrids have at least one tropical parent, some of them may be susceptible to frost. Many of York's sites experience frost during winter and it is therefore important to develop quick and accurate methods to determine which specific hybrids, and families within hybrids, are able to tolerate sub-zero temperatures.

At present, we are using three methods to determine the frost tolerance of seedlings and cuttings of nine hybrids and nine pure species important to York. From this study, we will be able to determine which method gives the most reliable results. We will also be able to rank the different species and hybrids in terms of frost tolerance and use this to improve site species matching.

Ultimately York aims to determine the relative frost tolerance, not only of families of its tropical species like *P. tecunumanii* and *P. oocarpa*, but of each of its pine hybrid families before they are commercially deployed. This will ensure that the risk of crop failure due to a severe frost is reduced.

New technical studies

Currently, the Technical Research division is exploring various new possibilities which could potentially benefit future forestry operations. A brief description of each is given below:

Biochar trials: Biochar is a charcoal-like substance formed by pyrolysis. Studies

have found that Biochar amendments to soil could potentially improve tree growth. Three trials have been established to test four different Biochar application rates in relation to seedling growth and survival.

Organic fertilizer trials (Micromix): Micromix is an organic fertilizer derived from sewage plants. Three seedling trials have been established to test two different Micromix application methods at two different rates of application. Seedling survival and growth will be monitored.

Long-term fire retardants: Long-term retardants stay active after the evaporation of water is completed, making it a very versatile fire combatant. Long-term fire retardants are extremely robust and could withstand up to 20 litres of rain per square metre. This makes early application possible in strategically significant fire risk areas.

Forest health software application: A prototype software application is being developed to monitor forest health. When data is entered, GPS co-ordinates are logged. The data is currently compatible with Windows Excel and Google Maps. This software could potentially be used in the future to do silviculture evaluations, harvest tracking, incident reports and risk management.

Silviculture mechanisation: We are currently evaluating the mechanisation of two key silviculture operations: seedling establishment and tree pruning. The possibility of using mechanical planters in future forestry operations is currently

5 173 686
LOGS SCANNED
FOR THE 2015
FINANCIAL YEAR

Forestry division

continued

being explored. York will also be testing different pruning technologies available in the market.

Forest health: We are currently investigating the use of remote sensing technologies to evaluate forest health in relation to net difference vegetation indices (NDVI). NDVI are obtained from spectral infrared



and near infrared images of the forest canopy, obtained from sensors mounted on planes and/or unmanned aerial vehicles (UAVs). NDVI reflects the forest canopy health as healthy leaves or needles have a higher rate of photosynthesis and therefore plant chlorophyll will absorb greater amounts of infrared. The visual imagery can therefore also potentially detect prescribed anomalies in relation to weed distributions, pest and disease spread or any other spread of forest stresses.

LOGISTICS

The main factors affecting timber logistic costs are the distance that the logs are located from the mill, tree form and log moisture content. By improving tree resistance to biotic and abiotic risks, trees with favourable wood characteristics for specific production lines could be established at marginal growth sites located closer to mills. By reducing the amount of trees produced with poor form and high taper, better stacking on truck loads will be achieved, allowing for higher payloads. Log drying rate is also a function of tree size and wood density and plays an important part in timber logistics as log moisture content could contribute to more than 50% of a log's total weight. Log drying rates will increase with decreasing log size and at lower wood densities.

LogTrace is a system developed in-house by York and involves harvesting, stocktake and inbound transport activities by:

- Measuring in-field product (dimensions, volume, type);
- Indicating geographical locations (distinguishable compartments);
- Capturing information electronically (mobile handheld devices scanning barcoded tags);
- Having traceability throughout the inbound process (stock age, teams, suppliers); and
- Showing transport movement (from sourcing sites to delivery destinations).

LogTrace also provides information analysis of scanning loads:

- Daily reports are sent out, indicating current stock on hand at roadside locations according to LogTrace information. This detailed report serves as an indicator of current volume available in-field and assists the transport contractor as well as processing facilities to plan forecast intake accordingly.
- Transport Planning Model is in progress (demand-driven approach to allocate the correct daily rateable delivery to specific processing plant by product mix request).

Tree optimisation



BIOMASS ELECTRICITY GENERATION

York is preparing an 28MW (gross) and 25MW (net) power generation facility bid response for the Expedited Bid Window. The facility will be located within the existing Sabie processing facility and fuel will be sourced from York's plantations and processing facilities. The facility will be connected to the national grid via a 132kV line situated next to the Sabie processing facility. The technology utilised will be three steam boilers with a full condensing turbine. This technology is suitable for the REIPPPP or the Cogen IPP. However, the maximum rate within the REIPPPP for biomass power generation is greater than the Cogen IPP. For this reason, the REIPPPP is the preferred programme.

York operates plantations, sawmills and a plywood plant. All these processes generate woody biomass, from which a limited amount of value is generated. By installing a biomass power plant, these residues can be used to generate value in terms of the full value chain. Apart from this, it will also generate the following benefits:

- Reduce fire fuel load in the forests; and
- Promote denser planting regimes, which will have the following benefits:
 - Increase volume harvested over the lifetime of a compartment;
 - Increase the wood density, which will increase the structural properties of the wood and thus the value of the final products; and
 - Earlier canopy closure, which will reduce the amount of weeds growing under the trees and thus reduce the maintenance costs of a compartment.




The biomass power plant is a strategic project in terms of York's growth plan, which includes the optimal utilisation of the available biomass fibre.



It is also aligned with York's processing strategy, which entails the development of a new integrated sawmill. The new sawmill will generate a large amount of residue and the biomass electricity plant will ensure optimal value is extracted from all available fibre once the plant is operational.

Processing division

HIGHLIGHTS

York's Processing division continues to work on the business vision of finding optimal processing solutions for trees.

 **PROCESSING PRODUCTION VOLUME INCREASE OF 3,3%** on previous year

SALES VOLUME
DESPATCHED  **9%** higher than previous year




LUMBER SELLING PRICES HAVE RECOVERED FROM PREVIOUS YEAR BY 5% 

LUMBER PRODUCT MIX improvement on previous year's product mix

CAPITAL EXPENDITURE

ON PLYWOOD to increase drying capacity, delivering **25% capacity improvement**

AT JESSIEVALE SAWMILL, installing finger joint capacity and increasing drying capacity

RESOURCE OPTIMISATION

Opportunities still exist to optimise the fibre resource even further. This will increase the value generated from the trees to the benefit of York, its shareholders and stakeholders. Once final environmental approval for the Sabie integrated site is obtained, this opportunity will realise its full potential.

Tree lengths and logs will then be processed in the integrated site log merchandising yard. It is here that advanced scanning and cutting technology will be used to unlock full tree value. York mills will benefit even further by receiving log products which are correctly matched for the production of specific product ranges. A decision was also taken in the reporting period to recommission the previously mothballed Golden Rhino sawmill as an alternate customer for York's Forestry division. This means that log products with a limited market will be processed at the mill, and timber products will be delivered

to York remanufacturing at Roodekop, in line with getting the most out of its trees.

From timber to user

With a vision to provide timber solutions to end-users, York's Processing division offers a basket of timber products that service its customers' requirements.

- York products can be further treated with timber preservatives for external applications.
- Structural or load-bearing products carry the necessary certification marks.
- Stringent quality and process controls are in place and audited by external certification bodies to ensure products comply consistently.
- York is now making use of available mechanical grading techniques to ensure structural timber meets required strength targets. This technology is a combination of X-ray and acoustic that determines board strength.
- Products are branded to ensure traceability, particularly for the end-user.

Footprint on the environment: York mills sell residue streams, generated from the manufacturing process and not utilised in the mill process, to board mills, pulp mills and the composting and agricultural sectors.

Historically, these residue streams were discarded, potentially resulting in environmental challenges.

EXTRACTING THE VALUE FROM TREES IN-FIELD ENSURES THAT THE BEST LOG PRODUCTS ARE PRODUCED FOR EACH OF THE PROCESSING PLANTS.

York's PROCESSING DIVISION

CHALLENGES

RAW MATERIAL COST INCREASES OF 9% WERE NOT ABSORBED IN FULL



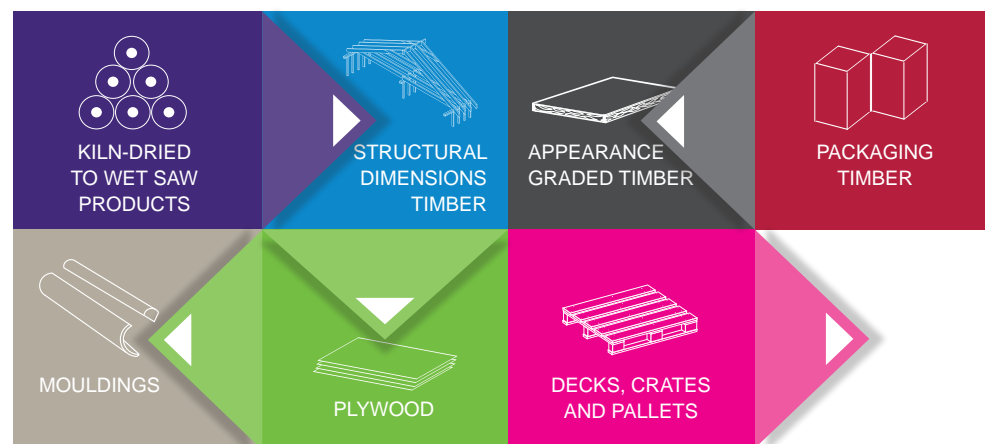
PLYWOOD production VOLUME **DECREASED 2,2%** from previous year due to industrial action

Processing division

continued

PRODUCTS

York's product basket:



YORK CONTINUES TO TAKE A **PROACTIVE APPROACH** WITH REGARD TO THE ENVIRONMENT, ERADICATING THE NEED FOR DUMP SITES.

COST OPTIMISING

The Processing division continues the drive towards being a cost optimiser in the timber processing industry. Various efficiency programmes are in place and delivering results that allow mills to produce fair financial results in turbulent market conditions. Management's energy is constantly channelled into a cost control environment, and current leadership has ensured that mill constraints are understood and cost is balanced or allocated accordingly. In the period under review, mills have benefited from an extensive mill vehicle replacement programme, reducing running costs to operations.

In addition to sustained levels of demand for external logs, the ability to pre-plan when demand from the processing plants will be required enables York to negotiate fairly on prices it will be willing to pay for external logs. Packaged deals, where additional volume is made available on the open market, further assist York in negotiating prices which defer the impact of increasing log inflation. Innovative deals to lower the net purchase acquisition costs through bulk purchasing over a nine-month period,

which ran over the previous and current financial years, is evidence of management's commitment to utilise its position as a major purchaser of external logs in the open market.

A factor applied by York in determining the optimal volume which can be generated from logs, is called a **log paying capability factor**. Log paying capability reflects the ability of a sawmill to pay for the raw material (logs) based on the average value of the lumber produced. It is calculated as: Average Selling Price (ASP) for lumber/Delivered log price adjusted for recovery. If the mill recovery, for example, is 49,5% and the delivered log cost is R678/m³, then the raw material cost would be R678/49,5% = R1 370/m³. If the average ASP per m³ is R2 382, then the log paying capability factor would be R2 382/R1 370 = 1,74 times.

Processing plants in York are evaluated by reference to the ability of the technology employed to pay for the logs utilised in the process. The current financial year has seen a slight improvement at most processing sites, but in York's view optimal value will only be demonstrated once the Sabie integrated site, which will include a large sawmill and automated log merchandising yard, is in place.

VOLUME RECOVERY

Volume recovery is one of the most widely used efficiency measures in primary log processing worldwide. It is simply the volume percentage of a log that is turned into final product volume (excluding by-products like chips and sawdust). In South Africa the final product is considered to be the seasoned

timber which has not been planed. Volume recovery is stated as follows:

$$\text{Volume recovery} = (\text{Product volume} / \text{Log volume}) \times 100$$

Another variable having a large effect on the profitability of a primary log processor, is the log volume throughput. The main reason is that fixed costs stay fixed with an increase in log volume throughput. The income will thus increase due to higher product outputs, but one of the cost components (fixed costs) will remain constant. Variable costs (mainly log costs) will increase proportionately with volume throughput.

VALUE MARGIN

Value margin represents the value added through the production process. The calculation is based on the log costs as described above, together with the other variable costs per m³. Log costs for example of R1 370 plus R48/m³ would result in variable costs of R1 418/m³. The value margin is then R2 382 – R1 418 = R964/m³. The value margin is used to determine the break-even volume required to pay for fixed costs.

VALUE RECOVERY

A measure that is not as commonly used as volume recovery, but is a more comprehensive efficiency measure, is value recovery. It reflects the value created by every m³ of logs processed. Value recovery is measured in R/m³ and is calculated as follows:

$$\text{Value recovery} = (\text{Product value} / \text{Log volume}) = (\text{Product volume} \times \text{Product price}) / \text{Log volume}$$

The big difference between value recovery and volume recovery is that value recovery also takes product pricing into account. If the value of your products can be increased by better marketing practices or increasing the product grade yields, this will be captured in the value recovery measure but not by the volume recovery measure. An increase in volume recovery will also be reflected by an increase in value recovery.

Optimised recovery at sawmills is also dependent on achieving the correct sawing pattern from the available log presented for recovery. The South African sawmilling industry returns below par international recoveries due to the utilisation of older installed technology and consequently has lower recovery rates from available raw material. This results in an excess sawdust and chips volume from production processes, and due to local market dynamics where sales prices are offered far below the inherent economic value which remains in the chips (especially when benchmarked



internationally), presents an urgent need to look for alternative ways to optimise fibre value. This necessitates the evaluation of alternative products and technologies where chips can be used, and results in value-added products or processes such as application in generating thermal and electrical energy from use in a cogeneration plant, to producing wood engineered products such as MDF (medium-density fibreboard), chipboard or OSB (oriented strand board) manufacturing.

SABIE INTEGRATED SITE

The purpose of the Sabie integrated site is to extract maximum value from the available fibre in the Escarpment area while increasing productivity. This will be achieved by integrating the following processing facilities into one:

The first phase entails the upgrade of the plywood facility. This project will be completed during the first quarter of 2016. The project includes, among other, the following technology upgrades:

- Log conditioning chamber;
- Chipper;
- Veneer dryer;
- Automatic veneer grading and stacking;
- Layup line;
- Plywood press;
- Panel sizer;
- Glue kitchen; and
- Steam boilers.

A variety of local and international suppliers are involved in the project and the project is managed by York's Engineering division. The project aims to achieve the following:

- Increase throughput;
- Improve process flow within the facility;
- Improve veneer quality through improved log conditioning;

Processing division

continued



- Reduce production costs;
- Diversify product mix;
- Improve grading through automation;
- Reduce environmental impact through for example:
 - Thermal energy recovery;
 - Natural lighting;
 - LED lighting.
 - Variable speed control of motors;
 - Electrostatic precipitators at boilers; and
 - Sound attenuation on boiler fans; and
- Improve ergonomics.

The next phase of the Sabie integrated site will be a biomass power plant. The biomass power plant

will utilise wood residues from the Sabie sawmill, the plywood facility and local forests and convert it into electrical energy. Electricity generation from biomass is considered as renewable energy since it is part of the natural carbon cycle (it is considered to be carbon neutral). The purpose of this facility will be to:

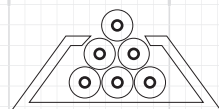
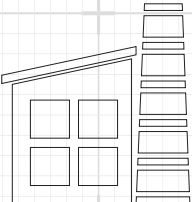
- Diversify York's earnings base;
- Supply renewable electricity into the national grid;
- Increase the value recovered from the available wood resource;
- Reduce the amount of wood residues left in-field after harvesting, which will reduce the risk of fires; and
- Enable York to optimise its planting and silviculture regimes for a diverse product offering.

The biomass power plant will utilise some of the latest technology offerings in the wood biomass boiler environment. It will include, among others, the following:

- Walking floor for fuel handling;
- Hydraulic push bar for fuel control;
- Moving step grate furnace;
- Multi-unit vaporiser optimised for biomass burning;
- Full condensing turbine and generator;
- Vacuum condenser; and
- Multi-cyclone and electrostatic precipitators.

Once the biomass power plant has been completed, the following phases of the Sabie integrated site development will follow.

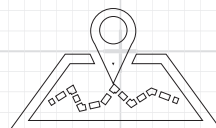
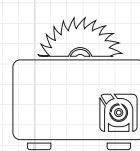
Biomass power plant
Electrical energy will be generated using wood as fuel.



Log merchandising yard
Full tree stems will be transported to the facility where it will be measured and bucked into the optimal log dimensions.

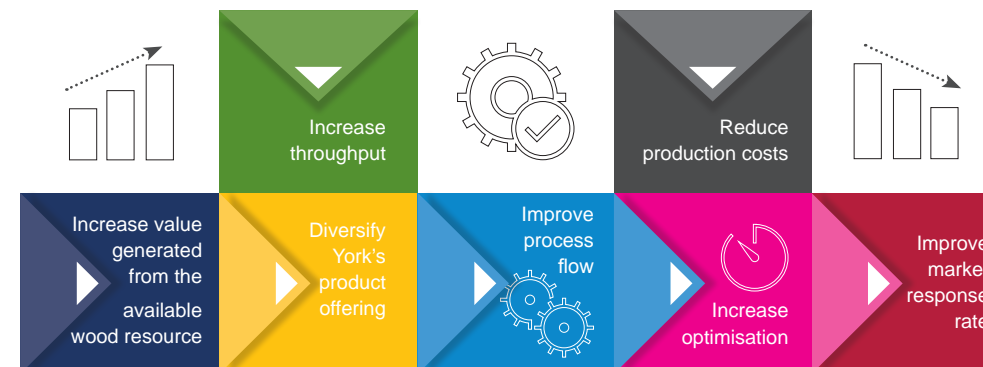
Sawmill

A new sawmill will be constructed and the latest sawmilling technology will be installed.



New infrastructure
New infrastructure for example roads, substations, offices, workshops etc. will be constructed.

During 2014 the first phase of the Sabie integrated site development commenced, being the plywood expansion project. The Sabie integrated site will include the following projects:



INTEGRATION

By integrating the various processing facilities, fibre from the plantations will be utilised to produce the optimal final product, while the energy efficiency of the plant will be significantly improved. Since various functions will be integrated, the production costs for the various processing facilities will also be reduced considerably.

The integration of the various processes will also, from a systems-thinking point of view, be optimised in such a way that the whole system is geared to ensure optimal value creation.

This process will start in the log merchandising yard, where logs will be optimised, taking into consideration the potential value that can be created at the various processing facilities.

ENVIRONMENTAL IMPACT

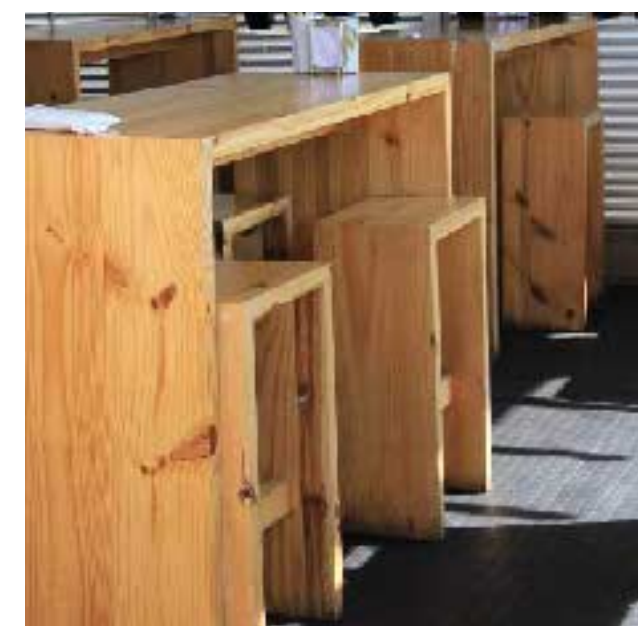
The Sabie integrated site is developed in such a manner as to ensure and improve environmental sustainability.

The various potential impacts on the environment were determined during the environmental impact assessment (EIA) and, with the assistance of environmental specialists, an environmental management plan (EMP) was developed. Implementation of this plan will ensure sustainability. During this process the community was also involved and their concerns were considered during the development of the EMP.

Apart from the management plan, new technologies, for example air emission abatement equipment, will be installed, which will comply with minimum national standards and, in many cases, minimum international standards.

CREDIBLE COMPLIANCE

- York's structural and load-bearing products comply with required South African National Standards and are regulated by South African Technical Auditing Services.
- Its mills carry FSC accreditation for chain of custody and are regulated by SGS, an accreditation body.
- The mills also carry a NOSA star-grading to measure safety and health performance at an operational level. This supports York's commitment towards its employees and stakeholders in making sure that the work environment is safe.



Processing division

continued

THE **INTEGRATION** WILL SUBSEQUENTLY NOT ONLY **MAXIMISE THE VALUE EXTRACTION** FROM THE AVAILABLE FIBRE, BUT ALSO **INCREASE ENERGY EFFICIENCY** AND **COST COMPETITIVENESS**.

CHANGING PROCESSING TECHNOLOGY AND PRODUCT DEVELOPMENT

The Processing division has continued to respond to a range of changing conditions involving environmental, economic and market concerns, and changes in technology. X-ray scanning and acoustic strength determining technology is being applied in the production of structural timber. Mills have further benefited from new boiler installations as well as new kiln-drying technology. Increased capacity was achieved through improvements made in technology.

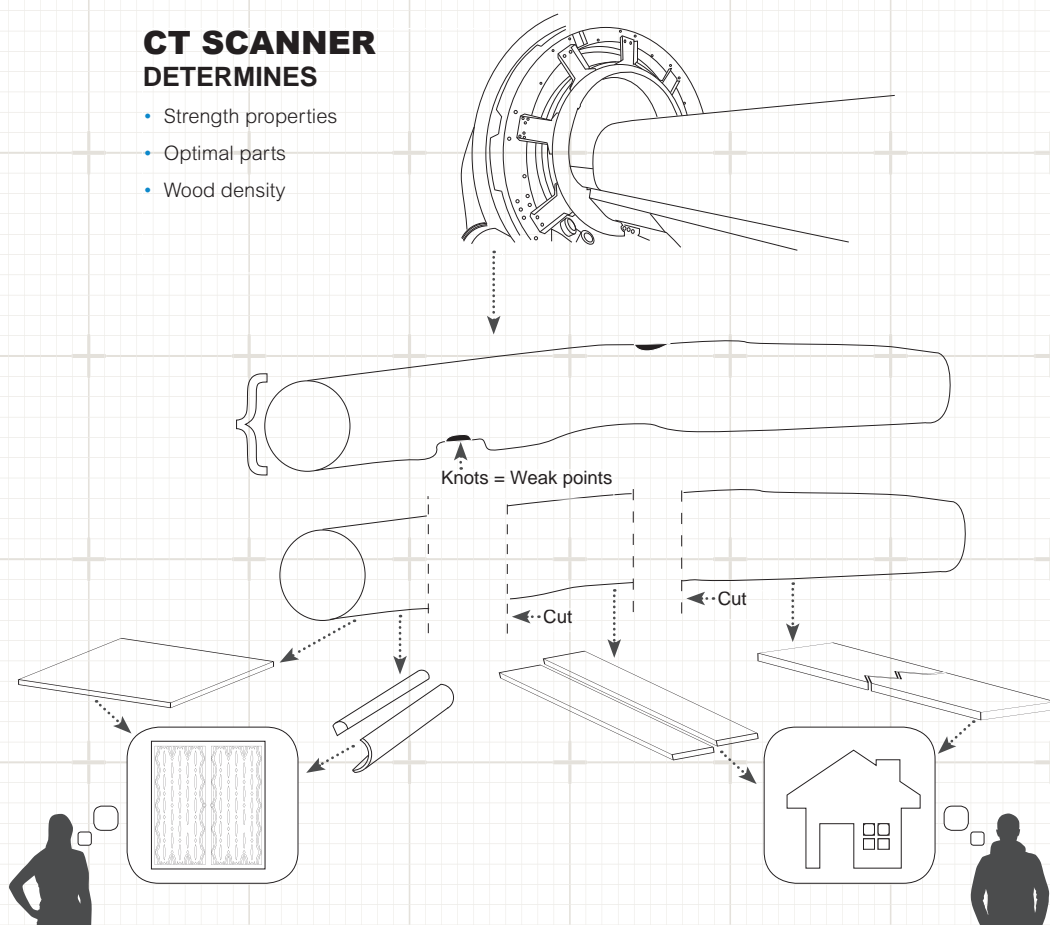
The industry has made significant advances in the past few years in developing more environmentally friendly processing technologies, achieving higher recovery rates, improving product quality and diversifying the use of raw materials. The industry is adjusting to changes in the supply of wood size, species and quality. Changes in the supply, characteristics and sources of raw materials, and in the processed products themselves, have created new markets and resulted in new marketing strategies.

YORK'S MILLS CARRY
FSC ACCREDITATION



CT SCANNER DETERMINES

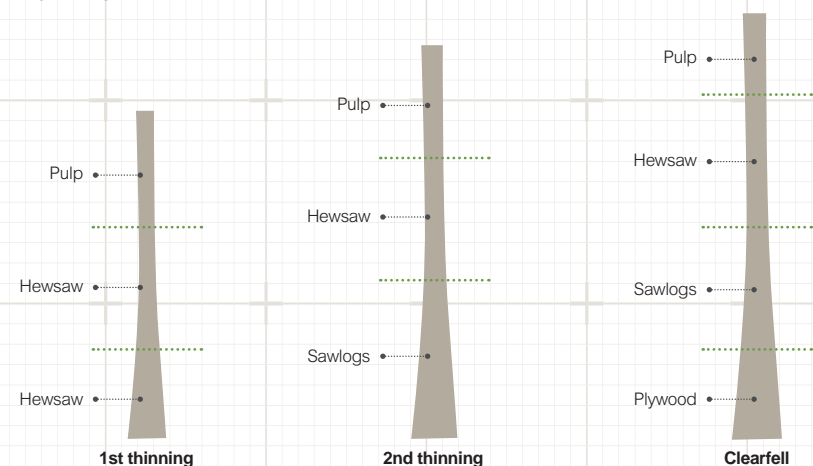
- Strength properties
- Optimal parts
- Wood density



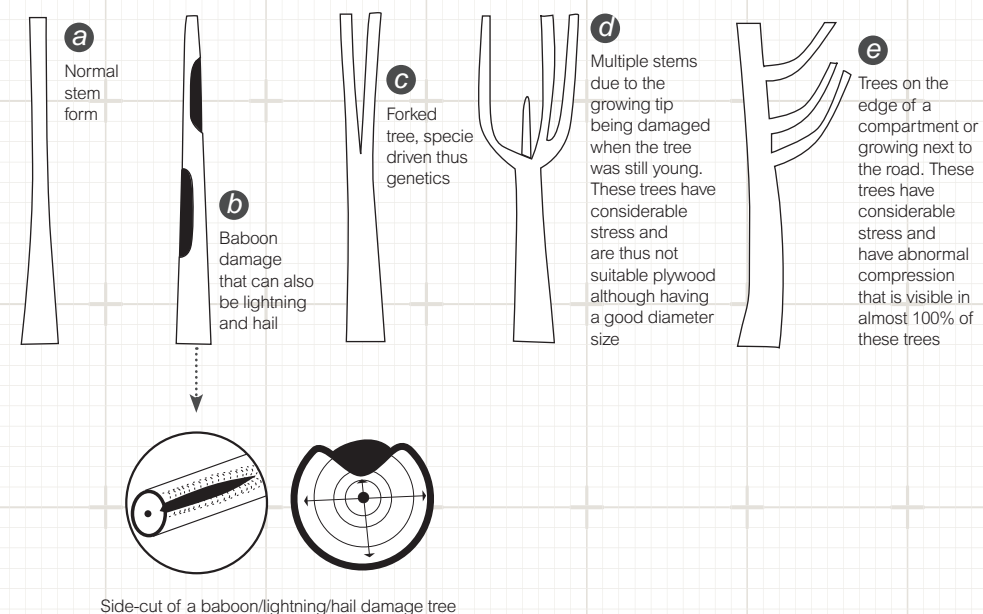
Logscaling

WHAT HAPPENS TO THE **TREES** THAT ARE **REMOVED** DURING THE **FIRST** AND **SECOND THINNING**?

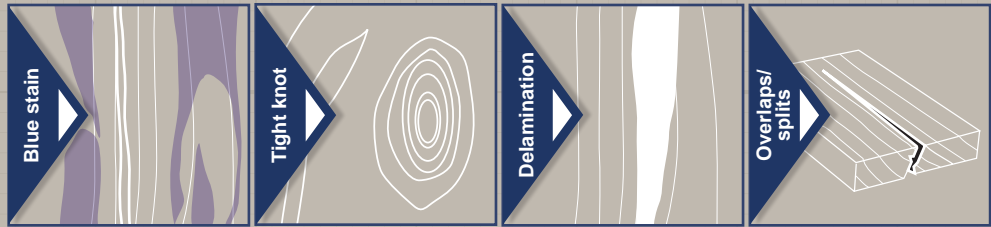
The forester needs to determine which portion of the log to cut. These logs are logscaled in-field to determine the optimal use of the logs for them to be processed at the sawmills. There are a number of combinations with utilisable and product lengths when logscaling a tree length. External and inherent log quality are also factors that need to be considered when logscaling.



Some of the tree or stem forms that have to be logscaled at roadside:



BASIC PLYWOOD DEFECTS



Blue stain

Sap stain producing a bluish discolouration

Tight knot

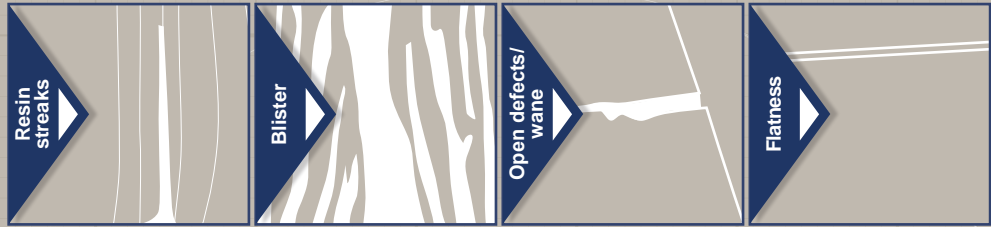
Measured across the width of the face

Delamination

Occurs where there is no bond between laminates in panels usually identifiable by lack of fibre breakage

Splits/overlaps

Split is a separation in the fibre along the grain. Overlap is caused by a piece of veneer leaving an indentation on the face of the veneer



Resin streaks

Resin infiltration

Blister

Caused by moisture/pressure build-up inside the panels that forces the layers apart (fibre pull will be visible)

Open defects/wane

Defect where the glue line is exposed or where bark is visible

Flatness

Measured with cupping toward the ground on a flat surface

Appearance grades	Structural grades
A & B	C+/C
Primary uses being panelling and furniture (face grade)	Most commonly used in shuttering applications, brick pallets and flooring
Appearance grade thicknesses	Structural thicknesses
6 mm	18 mm
9 mm	21 mm
12 mm	25 mm (on request)
16 mm	28 mm (on request)
18 mm	32 mm (on request)
25 mm	
28 mm	
32 mm	



MECHANICAL GRADING PROPERTIES AND CERTIFICATION

Commercial strength grading of timber is performed by visual grading or machine strength grading and, in this regard, York complies with the requirements contained in SANS 1783:2009 part 1, SANS 1783:2012 parts 2 and 4 and SANS 10096:2012. In the case of plywood, material is graded on the same principles in accordance with SANS 929 requirements and, in the case of CE-marked material, EN 13986, EN 636 and EN 314-1.

Visual strength grading only takes into account the macroscopic character of wood, i.e. the number and location of knots, wane and dimensional distortions. Knots are, however, poor predictors of strength and lead to more conservative predictions of the actual mechanical strength properties of the timber and, in most instances, visual grading underestimates the actual strength of the timber. Machine strength grading is used at Sabie sawmill for optimised grade sawing to facilitate finger-jointing. During the past two years, the viability of utilising machine strength grading instead of visual grading was investigated to further improve the quality of our timber.

The grading methodology on the 38mm x 114mm boards was adjusted throughout the production process at Sabie sawmill to increase the production of S5 grade boards. This was accomplished by measuring the concomitant board properties with the Microtec Goldeneye Scanner. To predict the board strength, the scanner accurately measures the Modulus of Elasticity (MOE), density, knot properties and the grain angle through a combination of acoustic methods, X-ray scanning and laser scanning. Various scanner parameters have been adjusted consistent with the required standards and confirmed by frequent sample tests to measure the MOE and Modulus of Rupture (MOR).

At the beginning of June 2015, the grading rules were adjusted to exclusively utilise machine grading at Sabie sawmill and visual grading was restricted to grade only for manufacturing defects such as dimensional discrepancies and defective finger-joints. SATAS has been auditing this process from the beginning to uphold the product quality. The grading methodology will be further adjusted to accommodate the other timber dimensions and similar grading rules will be implemented at the other York sawmills to further improve the timber quality and yield.

Wholesale division

continued

INDUSTRY LUMBER SALES VOLUME

UP **3,0%** YEAR-ON-YEAR

YORK LUMBER SALES VOLUME

UP **13,6%** OVER THE
SAME PERIOD



PERFORMANCE IN 2015

- The division's turnaround continued and contributed to the EBITDA profit line for the first time.
- This was achieved on the back of significant growth in turnover (44%) and gross profit (43%).
- In early 2015, a fire destroyed part of the Roodekop warehouse. Apart from the stock losses (mainly plywood), business interruption was limited as customers were serviced from the Pretoria warehouse. The division's results include an insurance excess payment of R5,25 million.

FUTURE OUTLOOK

The main focus now is to bring the EBITDA margin in line with industry norms.

Margins will be increased through the following:

- Higher margin products through the optimisation of the remanufacturing facility in Roodekop:
 - The remanufacturing plant in Roodekop is geared to manufacture the whole range of moulding products. These are products like ceiling, flooring and other specialised mouldings that generally sell at higher margins than traditional structural lumber; and
 - It is also geared to manufacture a whole range of specialised products specific to each customer's need. These products include pallets, decks, boxes and crates as well as a diverse range of components; significant growth opportunities have been identified and are being pursued;
- Increased presence in the higher margin market segments in which York currently operates:
 - The Wholesale division sells into a wide range of market segments from the smaller walk-in customer to construction companies and the large corporate retailers; and
 - Margins vary significantly and the focus is to increase the Wholesale division's exposure to those higher margin segments; and
- Focused procurement strategy;
 - The margin is determined by both selling price and cost – therefore the purchase price of raw material is as crucial as the selling price.

Information technology

UTILISING PREDICTIVE ANALYTICS



THE FORESTRY BUSINESS IS BECOMING **MORE** **RELIANT** ON INFORMATION TECHNOLOGY.

All businesses are becoming more reliant on information technology and the forestry industry is not excluded from this trend. Information technology is used in the forestry industry throughout the value chain – from genetic research into best biological material, site-specie matching, planning and monitoring the forestry operations (silviculture, harvesting, firefighting, road maintenance, etc) to the delivery and processing of the logs and finally into market analysis and predictions.

An important part of the IT strategy is to provide a framework that will deliver information to decision makers to optimise variables in real time. Substantial improvement has been achieved in this area and this is still an ongoing focus. York is now investigating the most appropriate technology to mine this information utilising predictive analytics in order to add more value to the organisation.

INTEGRATING INFORMATION

After evaluating our system needs, York established that, in order to implement a fully integrated information management system, it has to standardise its processes throughout the organisation and in the process implement best-of-breed practices. For this reason, Alexander Proudfoot was commissioned to assist York in this process. The Management Operating Systems (MOS) as output from the Alexander Proudfoot project will be used in aiding the creation of the Information Management System (IMS) requirements analysis documents. This, together with previous work done on "as-is" processes, will be reviewed to determine where the gaps are to create a Business Blueprint across the entire organisation.

A finalised Blueprint will be used in the RFP (tendering) process and will support software matching as well as implementation decisions.

ENHANCED COMMUNICATION

In the information age, communication is the backbone on which all information management rests. York has set itself a goal to establish a 100Mbps backbone between its various sites and to have a 1GBps local area network within each site. In order to accomplish this in the rural areas in which we operate, York is evaluating new wireless communication technology and equipment. The inter-site network will be based on wireless communication due to the problems frequently experienced with land-based telephone infrastructure such as cable theft.

GOING FORWARD

York's in-house developed supply chain system has been in operation for the past year and further enhancements are being made, such as the automated scheduling of inbound loads. This system allows York to monitor and manage all inbound logistics (delivering logs to the mill) and stock in-field in real-time, reducing truck standing times and enabling better road utilisation.

With York moving in the direction of mechanised harvesting operations in certain areas, the state of the art equipment which will be used will integrate with the forestry management and supply chain system in near real-time, further enhancing the ability of the foresters to plan and monitor the in-field operations.

Foresters require up-to-date information on the state of the plantations, such as stem count, growth rate and damage due to animals or natural elements. Drone technology can provide this information in a manner that was previously very expensive. It can be another tool in the foresters' arsenal in firefighting operations and naturally York is investigating this technology.