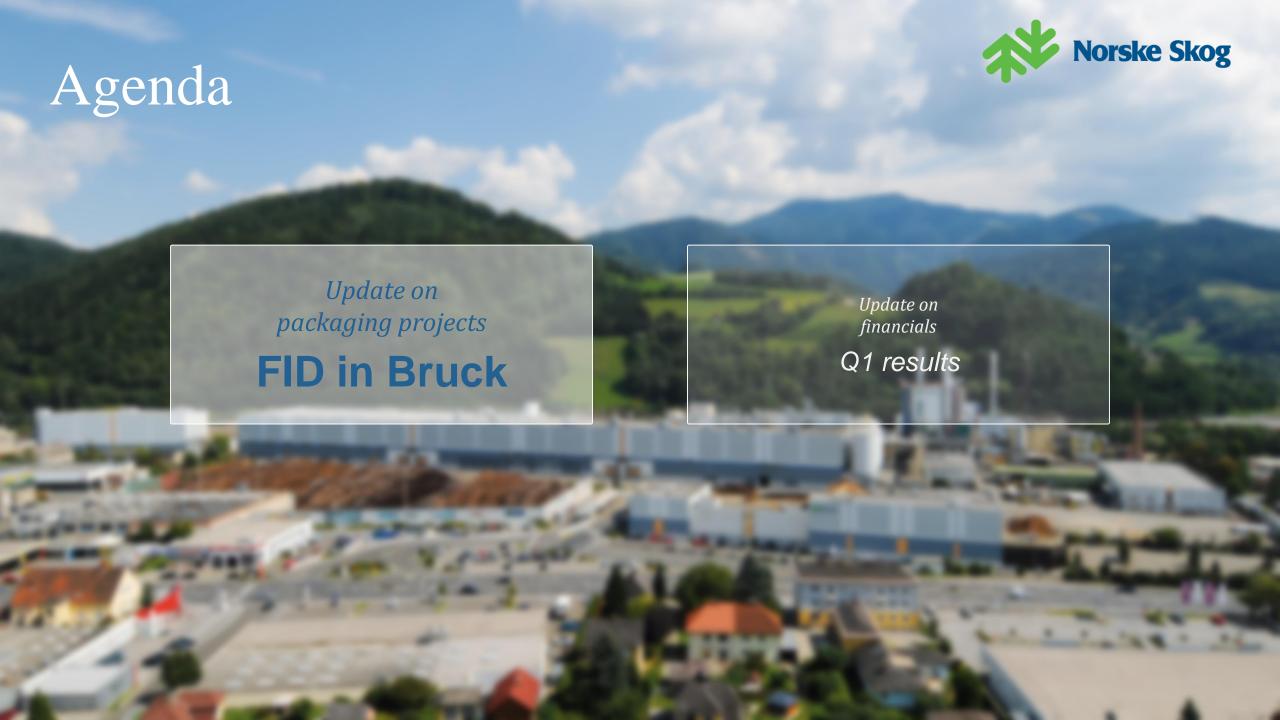


# Sustainable and innovative industry

- Global and sustainability focused industrial company
- Best-in-class industrial assets within fibre processing and sustainable energy
- Leading process industry knowledge and fibre refining competence
- Diversifying across fibre-based materials, energy and chemicals
- Strong commitment to the green shift and sustainable production





# Head start for Bruck containerboard project

#### FID

Bruck project approved by the board of directors

#### EUR 70m

Committed term sheet signed subject to documentation

Q4 2022

Start-up expected ahead of initial timeline

#### **EUR 100m**

Total project investment unchanged

#### 210 000 tonnes

Recycled containerboard production capacity











- Lightweight and strong fluting and testliner board
- Inevitably circular from 100% recycled fibre (OCC)
- Supporting e-commerce with sustainable packaging
- Replacing plastic where and when possible
- Production capacity of 765 000 tonnes in 2023
- Annual European demand growth +600 000 tonnes<sup>1</sup>

Source: External industry consultant (third-party)

1) European demand of ~26m tonnes with annual growth rate of 2-3%

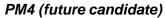
### Establishing a leading independent European containerboard business



#### PM3 (FID completed)



- Convert to 210k tonnes containerboard
- Three-month machine stop from Q3 2022
- Capex estimate of EUR ~100m



- 265k tonnes LWC magazine capacity
- Ongoing production during PM3 conversion
- Strong candidate for future conversion
- Feasibility studies concluded



#### PM1 (FID expected Q2 2021)

- 235k tonnes newsprint capacity
- Convert to 555k tonnes containerboard
- Three-month machine stop 2023
- Capex estimate of EUR ~250m

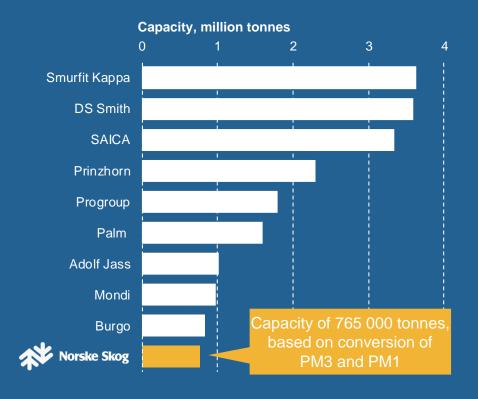
#### PM2 (future candidate)

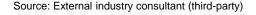
- 330k tonnes newsprint capacity
- Ongoing production during PM1 conversion
- Strong candidate for future conversion
- Feasibility studies concluded



#### Top 10 recycled containerboard suppliers in Europe

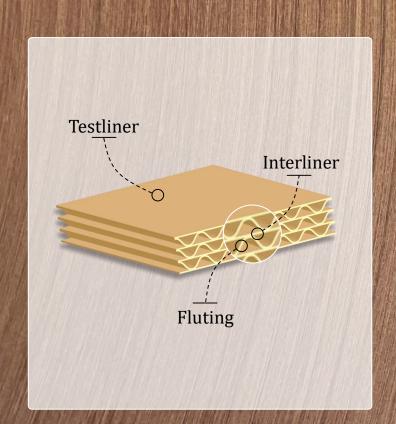
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# Early packaging market entry through interliner production at Skogn



- Early interliner production tests at Skogn during Q1 2021
- Sustainable product that is 100% recyclable and repulpable
- Complementary to testliner and fluting
- Plan to increase production through H2 2021
- Production switch requires <u>no capital expenditures</u>
- Competitive production cost due to fibre, energy and logistics access





### First quarter in brief

#### Final investment decision and financing commitment secured for Bruck containerboard project

- FID and financing for Bruck project with start-up brought forward to Q4 2022 (Golbey announcement expected Q2 2021)
- Early entry into packaging market with interliner production tests at Skogn and planned increases during H2 2021

#### Bruck waste-to-energy plant start-up in 12 months with expected annual EBITDA impact of NOK 200m

- The sustainable energy plant will absorb 160 000 tonnes of regional waste<sup>1</sup> and reduce Norske Skog's CO<sub>2</sub> footprint with 150 000 tonnes
- Remaining EUR 38m capex of total project investment of EUR 72m to be drawn on local debt facility

#### **Successful listing of Circa Group at Euronext Growth Oslo**

- Circa is fully financed to embark on its biochemical growth journey with strong industry and regulatory support
- Norske Skog holds ~26% of Circa Group

#### EBITDA of NOK 112m (no adjustments) and net debt of NOK 401m following successful capital market transactions

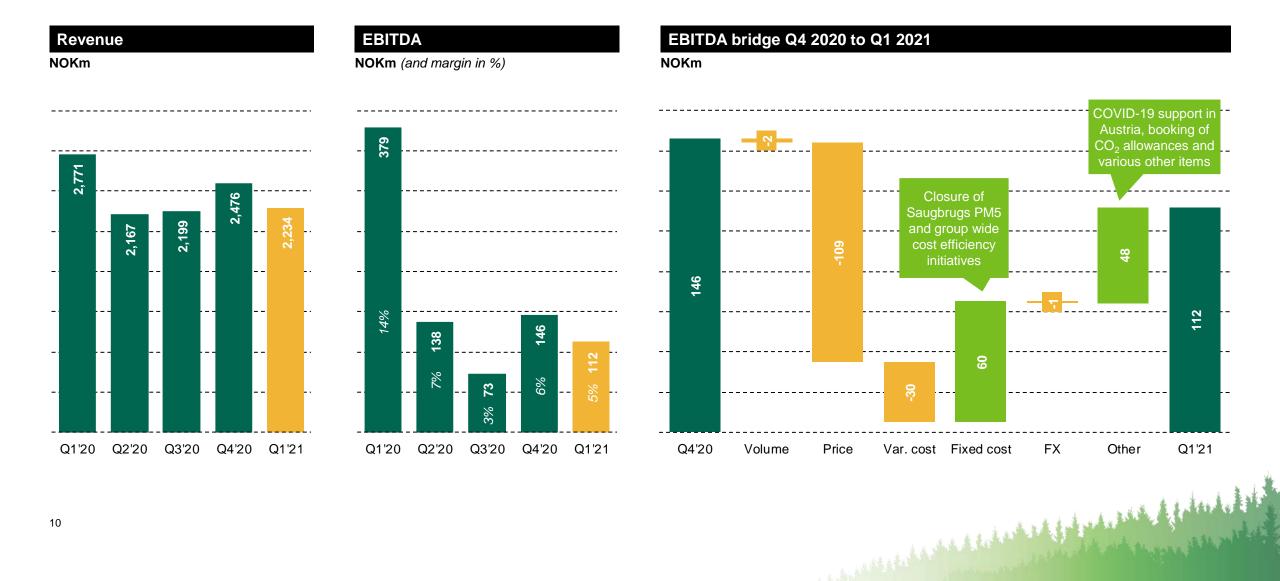
Successful NOK 400m equity issue and EUR 150m bond refinancing, supporting strategic and green growth projects

#### Publication paper market tightening during Q1 2021

- Upwards price pressure in Europe, driven by prices increases in Asia and North America, and limited supply of recycled fibre
- Additional capacity cuts in Europe of ~0.8 million tonnes announced in Q2 2021, further strengthening outlook for H2 2021



### Weak EBITDA in challenging price environment





### Segment financials for Q1 2021

| Segment financials        |         |         |         |
|---------------------------|---------|---------|---------|
| NOKm                      | Q1 2021 | Q4 2020 | Q1 2020 |
|                           |         |         |         |
| Europe                    |         |         |         |
| Total operating income    | 1,711   | 1,899   | 2,131   |
| EBITDA                    | 106     | 171     | 329     |
| EBITDA margin             | 6.2%    | 9.0%    | 15.4%   |
| Production (1 000 tonnes) | 392     | 382     | 411     |
| Deliveries (1 000 tonnes) | 382     | 403     | 396     |
| Production / capacity (%) | 88%     | 80%     | 86%     |
|                           |         |         |         |
| Australasia               |         |         |         |
| Total operating income    | 489     | 526     | 620     |
| EBITDA                    | -8      | -13     | 63      |
| EBITDA margin             | -1.7%   | -2.5%   | 10.2%   |
| Production (1 000 tonnes) | 89      | 94      | 92      |
| Deliveries (1 000 tonnes) | 90      | 97      | 99      |
| Production / capacity (%) | 79%     | 87%     | 85%     |
|                           |         |         |         |
| Other activities          |         |         |         |
| Total operating income    | 60      | 68      | 48      |
| EBITDA                    | 14      | -12     | -13     |



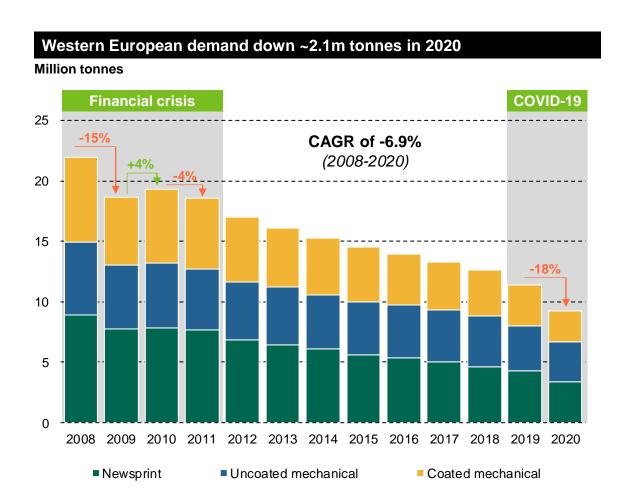
- Lower realised prices in the quarter (down 7-8%)
- Limited change in raw material prices (covered by contracts)

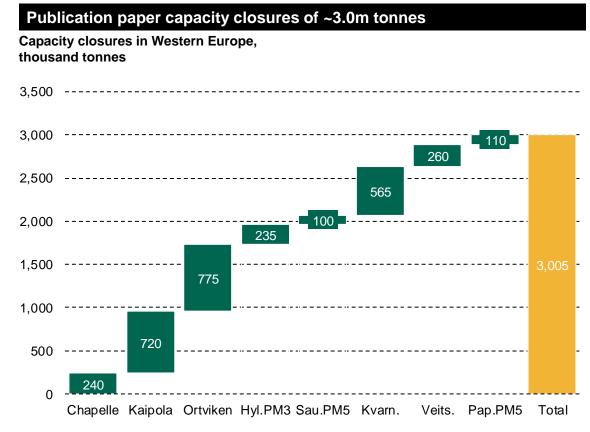
- Utilisation down to 79% from 87% (utilisation includes Tasman capacity)
- Boyer supplies domestic market under long-term price contracts
- Minor EBITDA improvement



### Industry reacting to the COVID-19 market impact and operating rates expected to increase going forward

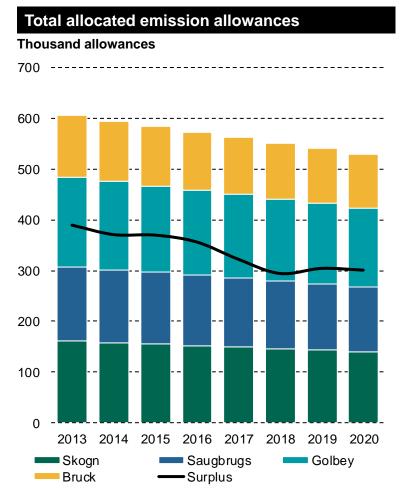


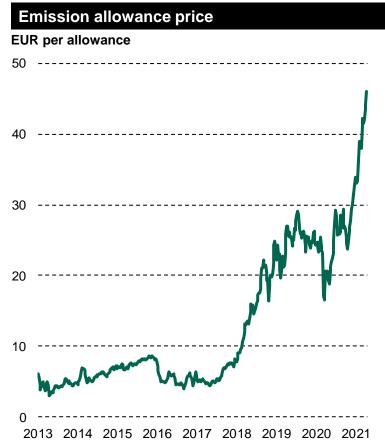




### Industry low CO<sub>2</sub> footprint enabling annual CO<sub>2</sub> emission allowance surplus







- Industry low CO<sub>2</sub> footprint basis for annual emission allowance surplus
- Waste-to-energy plant at Bruck will reduce CO<sub>2</sub> footprint with 150k tonnes annually, start H1 2022
- Allowance sale income booked each quarter in 2021, but expected to be received in H2 2021
- Cost compensation booked each quarter in 2021, but cash proceeds to be received in H1 2022

## Saugbrugs energy efficiency initiatives

- Industry leading energy efficiency
- Continous efficiency improvements are essential to support the green shift
- Enables less than 0.1% fossil-based thermal energy use at Saugbrugs
- Projects targeting energy consumption and recovery from TMP¹ production
- NOK 165m investment supported by Enova and NOx-fondet with NOK 66m
- Projects expected to have a payback around three years net to Norske Skog





## On schedule for start-up in 12 months of +400 GWh sustainable energy production

#### Waste-to-energy plant being installed in Bruck, Austria

50 MW(th) capacity +400 GWh(th) production 160k tonnes RDF<sup>1</sup> capacity NOK ~200m **EBITDA** 150k tonnes CO2 reduction

EU Green Deal: Circular Economy Action Plan
Reduce landfill to a maximum of 10 % of municipal waste generated by 2030

- Increasing landfill and waste exports restriction drive demand for waste offtake
- Few viable alternatives for waste that cannot be reused, recycled or recovered
- Huge positive environmental impact by diverting RDF¹ from landfills
- Basis for increasing need for further waste-to-energy (WtE) capacity in Europe
- WtE plant with proven technology turnkey installation contract from Valmet
- Will replace current gas consumption with energy produced from regional RDF¹

- RDF¹ to be sourced from within 200km from 10-15 customers
- Revenue generation from gate fees and electricity production
- EUR 72m investment of which EUR ~34m invested as of Q1 2021
- EUR ~16m of EUR 54m in local debt drawn as of Q1 2021

## Circa fully financed to embark on biochemicals growth journey

- Toxic and fossil-based chemicals have become integral to the production of essential pharmaceuticals and other products
- Circa can produce biochemicals at scale using patented production technology, offering safe and environmental alternatives
- Strong regulatory tailwinds and Horizon 2020 grant from EU to enable scale production of chemical alternatives
- The production technology has been verified through 15 years of research and five pilot plants
- In March, Circa raised NOK ~500m to finance the ReSolute project in France to construct a first-of-its-kind 1,000 tonnes production plant
- LOI with chemical distribution giant, Merck KGaA, for offtake of the full 1,000 tonne volume
- Listed on Euronext Growth Oslo and Norske Skog holds ~26% and will continue as long-term partner and shareholder



### Continued strong commercial traction for CEBINA

- CEBINA improves sustainability of coatings and adhesives by replacing fossil-based and/or harmful substances
- CEBINA can replace such fossil and harmful substances in multiple applications where few alternatives are available today
- Produced from renewable wood fibre and hydro power, and developed at Saugbrugs industrial site since 2006
- Current pilot capacity of 500 tonnes, and planned capexefficient upscaling on back of potential distribution agreements
- First commercial sales in Q4 2020 for epoxy floors, and commercial development ongoing within other applications
- Working closely with range of potential customers and technical partners to establish downstream demand



## Developing CEBICO as an alternative to plastics

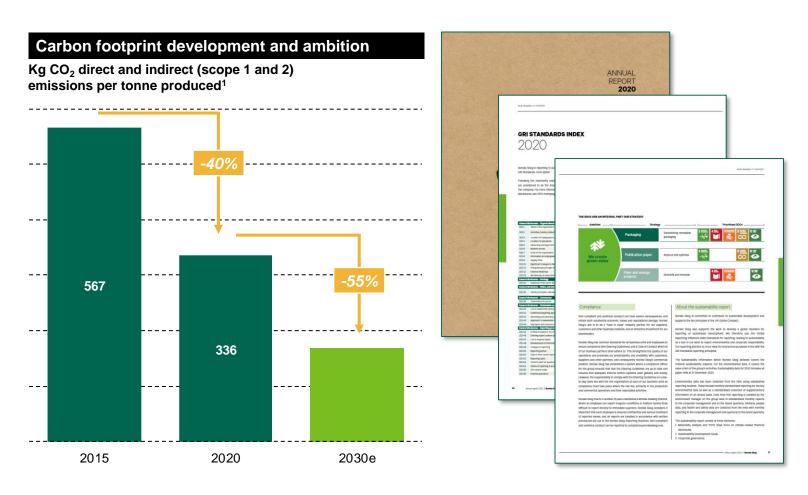
- Plastics improve quality of life, but are mainly fossilbased and takes 500 years to degrade in nature
- Landfills contain over 6bn tonnes of plastics and only 9% of all plastics produced have been recycled
- CEBICO substitutes plastics with fibre in the recycling process to create a stronger composite
- Works closely with end-customers to develop fibrebased plastic products for closed loop recycling

Replacing one kilo of plastics with fibre saves six kilos of CO<sub>2</sub> emissions





## Reducing the environmental impact is at the forefront of all business decisions



- ✓ Industry low CO<sub>2</sub> intensity under the EU ETS<sup>2</sup> in 2020
- New energy efficiency initiatives being introduced in 2021<sup>3</sup>
- Waste-to-energy boiler reducing CO<sub>2</sub>
   footprint with 150 000 tonnes from H1 2022
- Reduced electricity consumption and steam from new biomass boiler in Golbey following conversion project
- Detailed 2020 CSR report issued applying the Global Reporting Initiative Guidelines

### Outlook

#### Market

- Improving operating rates in the industry
- Sharp price increases for recycled fibre and other input factors
- Unsustainable margins in short-term
- Considerable paper price increases expected and needed in H2 2021

#### **Strategy**

- Final investment decision for Golbey conversion project in Q2 2021
- Update on repositioning of Australasian operations in Q2 2021
- Enter international distribution agreement for CEBINA in 2021
- Remain a reliable supplier of all publication paper grades





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