







TOMRA is well-positioned towards megatrends

1 Solutions for optimal resource productivity





2 Leading market position – fit for growth

Collection
Solutions
#1

Food Sorting #1 Recycling Sorting #1

Mining Sorting #1

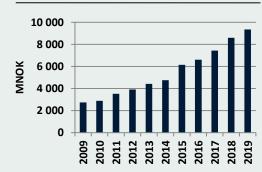
3 Pioneer in sensor-based and digital technologies



4

Strong financial performance, people & culture

Revenues

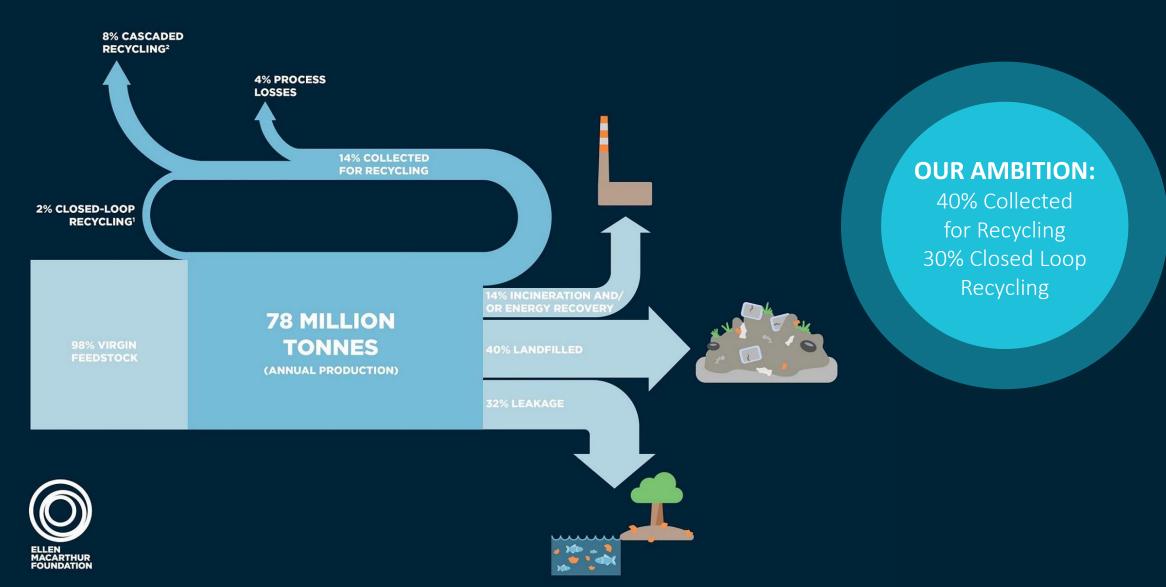








Only 2% of the planet's annual plastic packaging production is reused for the same/similar products



Significant untapped potential to reuse good materials



VALUE PROPOSITION* \$ 50-80 BN

Total volume of plastic packaging is 78 mln tonne annually whereof ~14% is currently recycled, meaning ~67 mln tonne lost. With a volume yield of 72% and a weighted average price of 1,100–1,600 USD/t, the total value proposition is in the range of USD 50-80 bn. Please note that this is a conservative estimate based on a narrow definition of total annual plastic packaging volume. Applying a wider definition can increase the value proposition up to USD 170-190 bn.



VALUE PROPOSITION*
\$ 70-150 BN

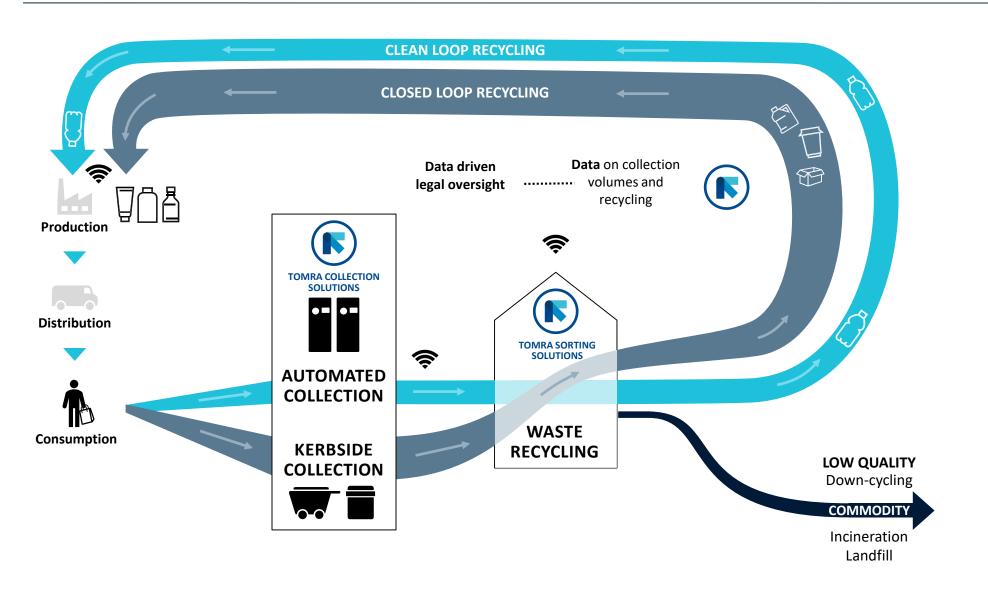
Worldwide steel production is currently about 1,600 mln tonne annually. 70-90% recycling means ~1,100-1,450 mln tonne recycled and 160-480 mln tonne lost. Assuming ~90% yield in process with market price of ~500 USD/t equals USD 70-220 bn, so conservative range USD 70-150 bn



VALUE PROPOSITION* \$ 30-40 BN

~80 % of produced paper is potentially recyclable, ~400 mln tonne annually x 80% = 320 mln t/a potentially recyclable paper in the market. Today, ~58 % or 230 mln t/a are recycled, means 90 mln tonnes are lost. If this is recovered and goes into the paper recycling process there will be between 10-30% fibre loss, assuming on average 20%. The value of newsprint paper is ~400-600 USD/t, let's assume 500 USD/t = ~90 mln t/a x 80% x 500 USD/t = USD36 bn

Circular economy – redefining value creation



Business case for plastics

Value increase

2.5-7x

€1400 per ton

Clear PP/PE

€1000 per ton

Clear PET

€500 per ton

Mixed PET

€200 per ton

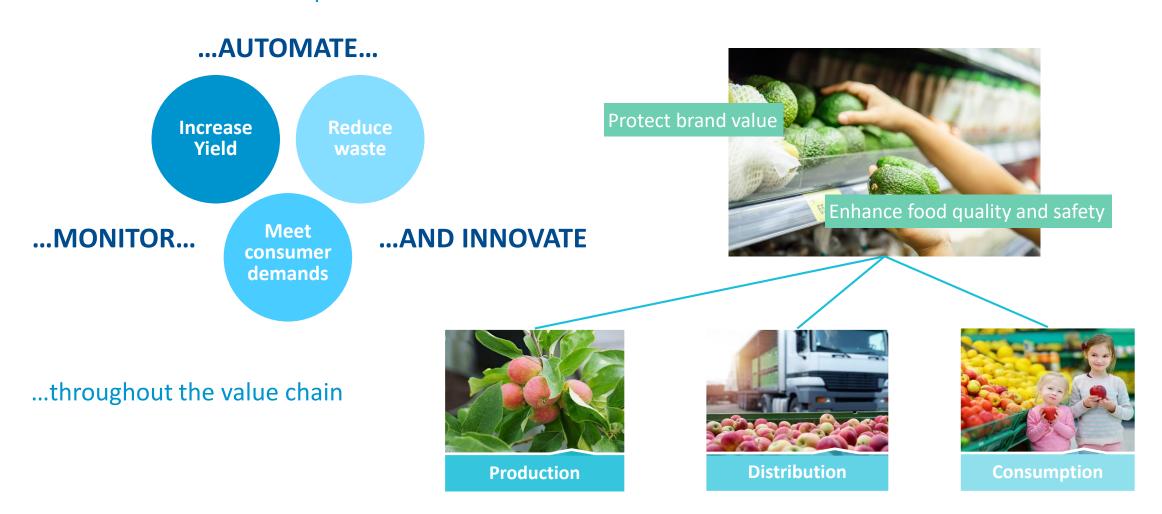
Mixed Plastic





New ways of feeding a fast-growing DEMANDING population...

To ensure an efficient food production there is an increased need to...



TOMRA to play a difference in the FUTURE OF FOOD production



At TOMRA, our company vision is Leading the Resource Revolution

It is our belief that businesses have the power, responsibility, and vested interest to help manage our planet's precious resources—today and tomorrow.

Some of the biggest global challenges are TOMRA's business opportunities

Message from the CEO

«Putting ability into sustainability»

At TOMRA, sustainability is at the core of everything we do. Our collection and sorting technologies have a significant positive impact on the world around us, helping to address major environmental challenges like climate change and plastic waste with innovative solutions for a greener tomorrow.

As a company we are also committed to "walking the talk". That means doing what we can to ensure sustainable business operations and manage relevant social and environmental risks and opportunities along the company value chain.

Our commitment to sustainability is closely linked to our vision of "leading the resource revolution". I believe that in order to be successful we must leverage our sustainability impact to create high value for our customers, to enhance competitiveness, and to attract and retain talent. Furthermore, we must collaborate and use our technology and expertise to influence sustainability impact among partners and beyond our direct market reach.



S. Zamo hand

Stefan Ranstrand
President and CEO Tomra Group

Other SDGs where TOMRA delivers positive **SDG 12** - Sustainable consumption and production - aims impact through our products and services include: at "doing more and better with less." TOMRA's vision of "leading the resource revolution" and our SDG 11: Sorting solutions for sustainable mission "to create sensor-based waste management. solutions for optimal resource productivity," fit squarely within SDG 9: Technology innovations for this agenda. All our business resource productivity. units deliver positive impact SDG 14: on several of the SDG 12 Closing the tap on land for sub-targets, including: plastic pollution through Sustainably manage collection systems and closed loop recycling. natural resource. ******* reduce food waste SDG 2: and food loss, prevent Food sorting solutions that increase agricultural and reduce waste yield and reduce food loss through recycling and along production and supply chains. reuse, partnerships and education for sustain-13 === **SDG 13**: able development and Avoiding carbon emissions from both material production lifestyles in harmony with and waste management through nature. collection and sorting solutions for recycling. SDGs 5, 8 and 17 are supporting, crosscutting goals where we strive to have a positive impact through the way that we work.

At TOMRA, we consider delivering on these

SDGs as part of our "license to operate."

From purpose into profits and profits into progress, TOMRA is **transforming** what it means to be resourceful



Our solutions, in use around the globe,
 helped keep ~17 millions of tons of CO₂
 from being released into the atmosphere in 2019

 More than 40 bn used beverage containers are captured every year through our reverse vending machines

Our steam peelers process ~15 million tons
 of potatoes per year with a 1% yield
 improvement over other alternatives

 ~715,000 tons of metal are recovered every year by our metal-recycling machines







Publicly listed on Oslo Stock Exchange (OSEBX: TOM)









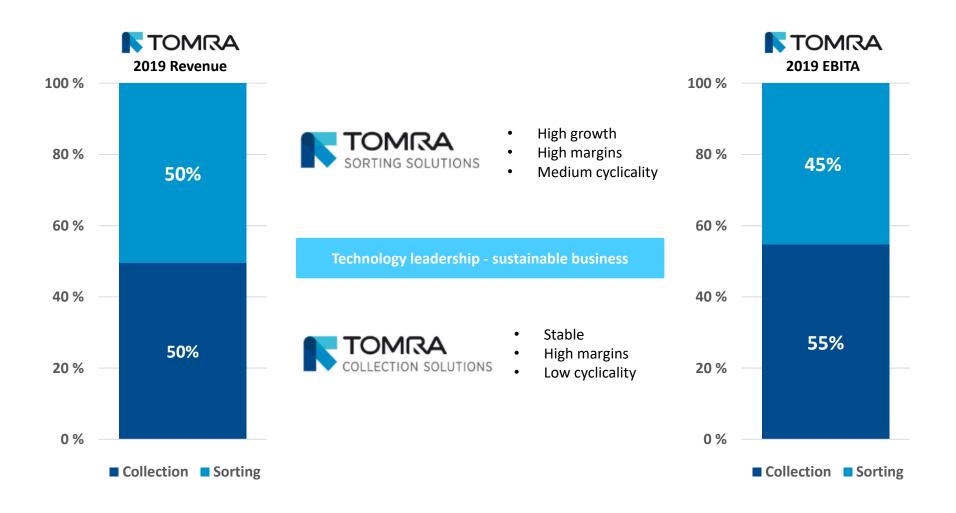








Creating value through two strong business areas





The TOMRA transformation journey





TOMRA scquires TITECH, the world's leading provider of optical recognition and sorting technology for the waste industri and TOMRA's transformation journey starts.



2005

2006



TOMRA acquires Commodas - a leading

supplier within the field of sensor-based

products for mining and metal recycling.

TOMRA acquires Orwak Group, a leading provider of compaction for a variety of materials.



2008 TOMRA

TOMRA acquires Ultrasort - specialists in sensor-based mining technology.



TOMRA

2011



Sale of Californian material handling business. With the divestment the US operation became

less exposed to movements in commodity prices.

2011



TOMRA acquires Odenberg. rounding out the offering to include food optimization.



2012



TOMRA acquires BEST, leading food sorting machine producer. With the acquisition of BEST, TOMRA has by far the widest reach within the food sorting universe.



2016

Through its transformation journey TOMRA has moved from a business of many brands to one brand with many areas of expertise. We are one TOMRA.



2014



Divestment of Orwak. Further portfolio focus on sensor-based technology.

2016



TOMRA expands into lane sorting, acquiring New Zealand based Compac, confirming TOMRA's position as the leading provider of sorting technology into the food industry.

2018



TOMRA compliments its food sorting portfolio with the acquisition of BBC Technologies, a leading provider of precision grading systems for blueberries and BBC O other small fruits. TECHNOLOGIES

FROM:



Helping the world recycle

2000



Collection



2008



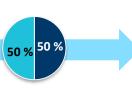
Collection Sorting

2012



Collection Sorting

2019



Collection Sorting

TO:



LEADING THE RESOURCE REVOLUTION



2004



Collection Sorting



TOMRA's two business areas



FOOD

Share of '19 sales

~32%

Employees

1,445

Customers

Food growers, packers and processors

Market share

Bulk: ~25% Lane: ~25%

RECYCLING

Share of '19 sales

~16%

Employees

260

Customers

Material recovery facilities, scrap dealers, metal shredder operators

Market share

~55-60%

MINING

Share of '19 sales

~2%

Employees

80

Customers

Mining companies

Market share

~40-50%

TOMRA SORTING GROUP FUNCTIONS & SHARED STAFF

Employees

250



REVERSE VENDING

~39%

1,905

Grocery retailers

Over 70%

MATERIAL RECOVERY

~11%

590

Grocery retailers and beverage manufacturers

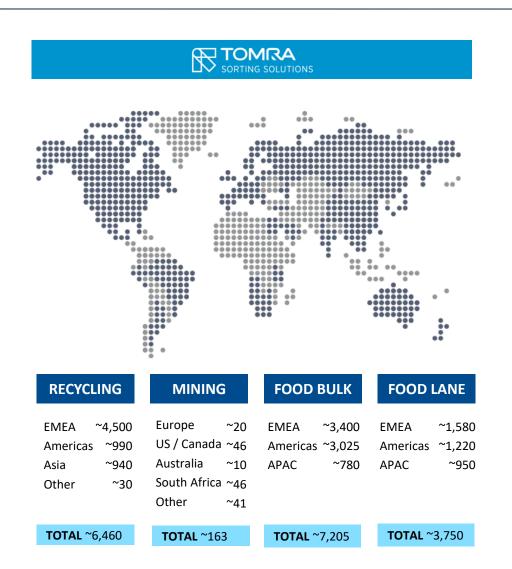
~60% in USA (markets served)





Installed base worldwide

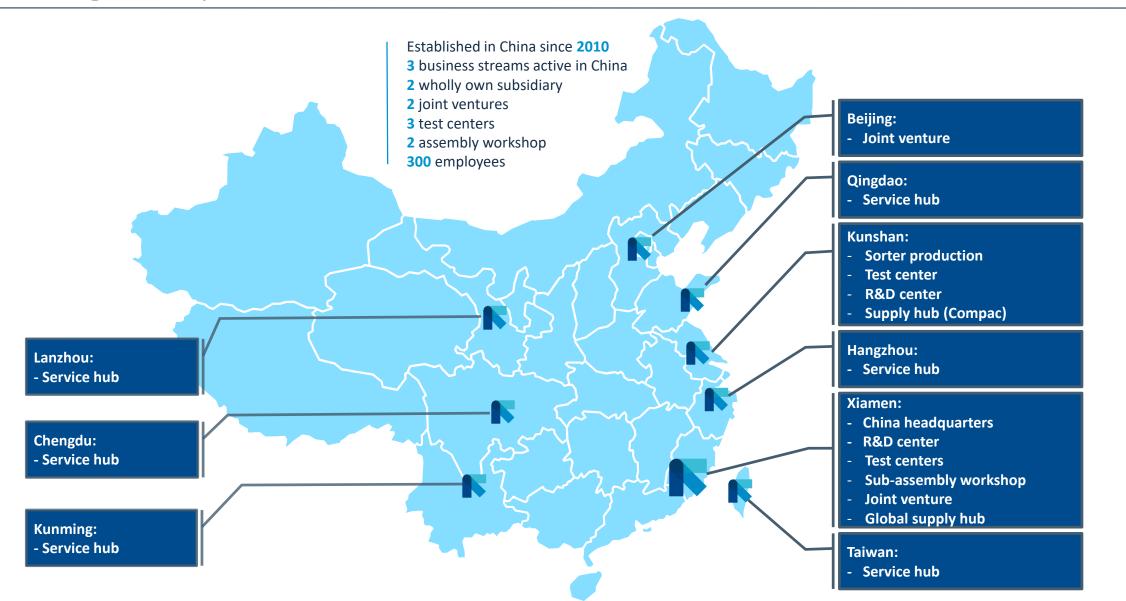
TOMRA COLLECTION SOLUTIONS 00000 0000000000 000 000 0000000000 0000000 000000 000000000 80 00 0000 **** 0.0 000 -----..... ••••• . **REVERSE VENDING** Nordic ~15,100 Germany ~29,500 Other Europe ~15,000 North America ~16,900 Rest of the world ~7,600 TOTAL ~84.100



Food Lane includes Compac and BBC



Strengthen presence in China









But the tides are shifting. There's a desire for change...



Consumer demand for responsible plastic use options



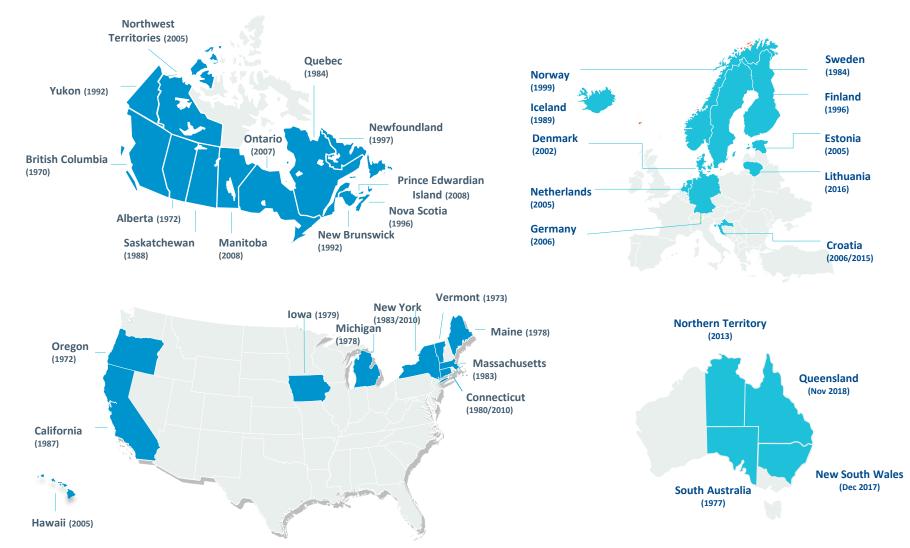
Legislative push for new plastic waste strategies



Market pull from large brand owners and beverage companies



An overview of current deposit markets*



^{*} In addition, some markets have refillable deposit systems such as: Austria, Belgium, Chile, Czech Republic, France, Hungary, Poland and South Korea



Upcoming deposit markets on the move

North America:

Possible expansion of existing deposit systems

Scotland:

Commitment to a Container Deposit Scheme announced in party program

England:

Announced plans for a deposit scheme to reduce plastic pollution. Ongoing consultation



EU Single-Use Plastic Directive:

Targets on recycled content and collection target for plastic bottles. Deposit scheme mentioned as a mear to reach those targets.

In progress

Recently approved

Australia:

NSW introduced deposit from December 2017 QLD introduced deposit from November 2018

Western Australia plans to introduce in 2020



EU enforcing its leadership role on environment

Targeting the most littered plastic items

Some products to be banned, others less used



Separate measures for plastic drinks bottles

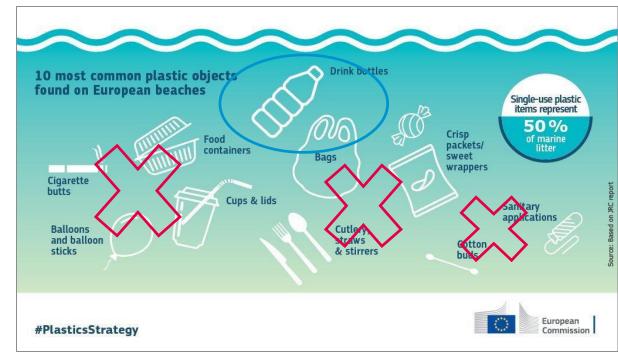


Collection target for plastic bottles:

- 77% by 2025
- 90% by 2029

Recycled content in product design:

- 25% by 2025 in PET bottles
- 30% by 2030 in all plastic bottles





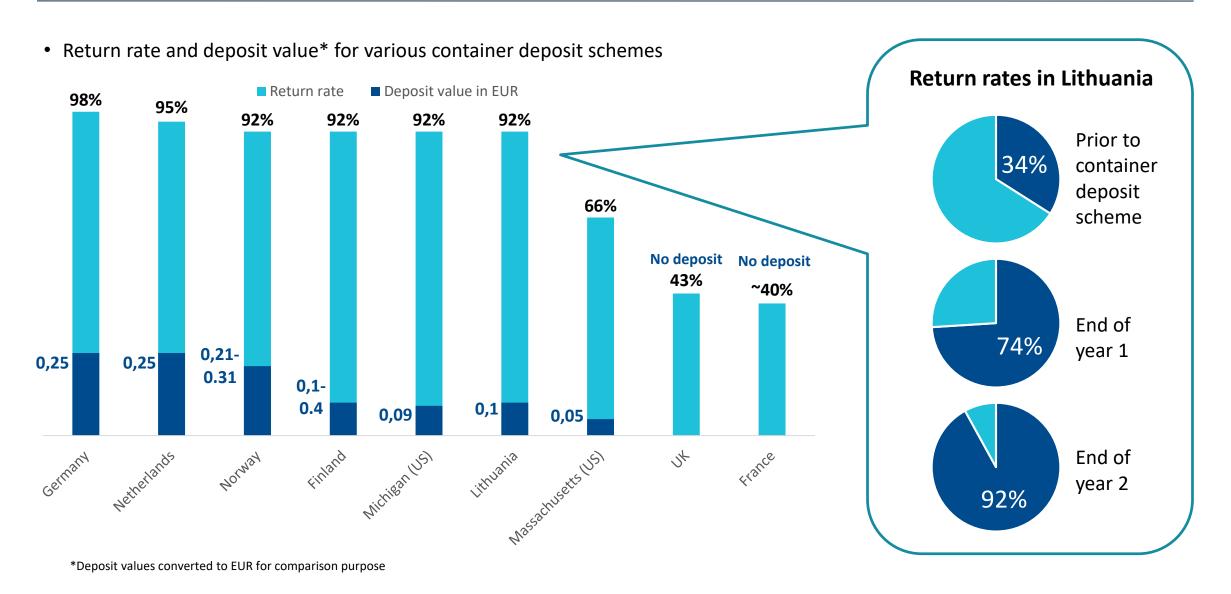
Extended producer responsibility



Collaboration across plastics value chain



A proven solution to achieve high return rates





Designing a deposit scheme – lengthy process from idea to law

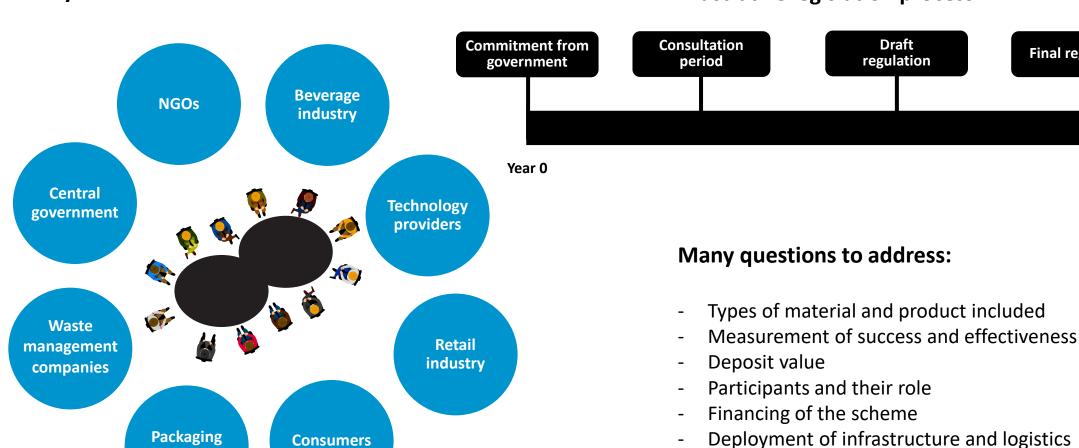
Many stakeholders around the table

industry

Illustrative legislation process

Fraud prevention

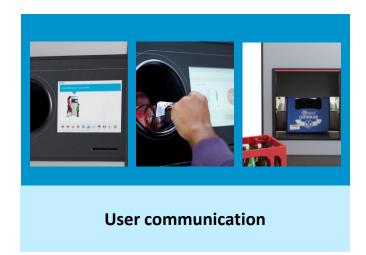
System regulation and monitoring



Final regulation

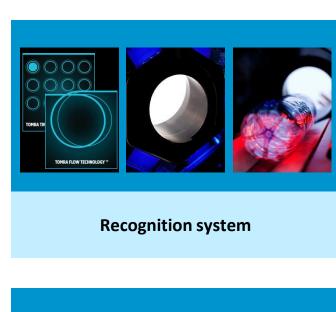
Year x

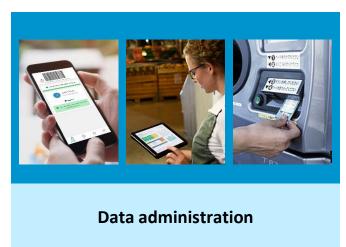
Elements of a modern reverse vending system











Key market and consumer trends drive structural changes...

CONSUMER TRENDS



Bag drop solutions, reverse logistics from e-commerce

RETAILER TRENDS



Bigger chains but smaller stores, self-service

MATERIAL TRENDS



Biodegradable bottles

STAKEHOLDER TRENDS









Beverage producers more proactive to set the scene



...reflected in shifting business models and stakeholders

Financing Sales & Service model Throughput model High recurring Upfront revenue Revenue Profitable Swift roll-out service concept Proven track record Aligned interests Retailer purchases and takes the **TOMRA** owns and operates the **Utilize financial** Low risk RVM and receives a fee per strength **TOMRA** provides services



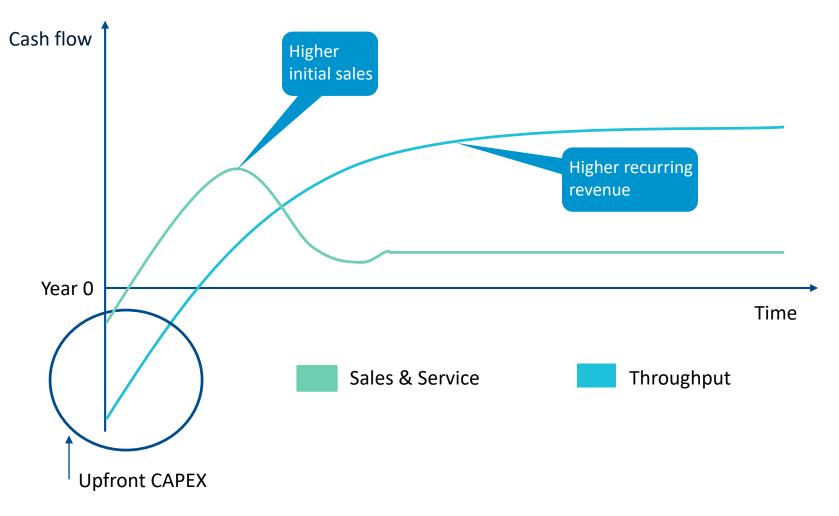
Retail

Location

Other

Main differences between the two business models

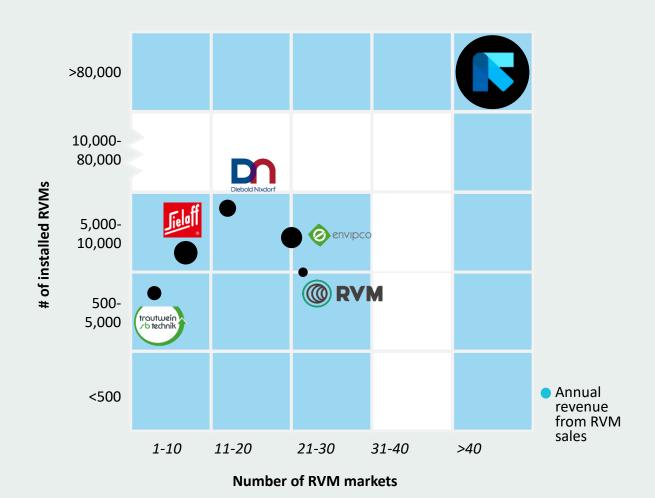
Illustrative cash flow profiles per machine

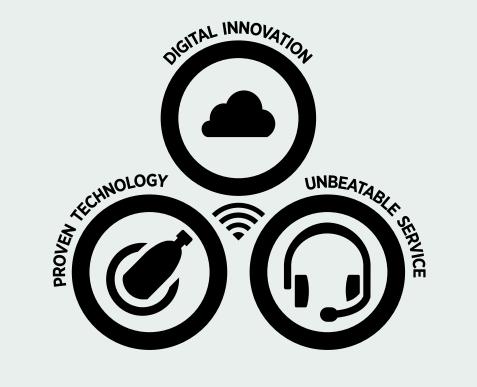


- Typically fewer machines per capita in throughput markets
- Higher CAPEX needs in a throughput model but normally also higher NPV
- Uncertainties around timing and design of each new container deposit scheme can have significant impact on the cash flow profile



Undisputed market leader within reverse vending technology

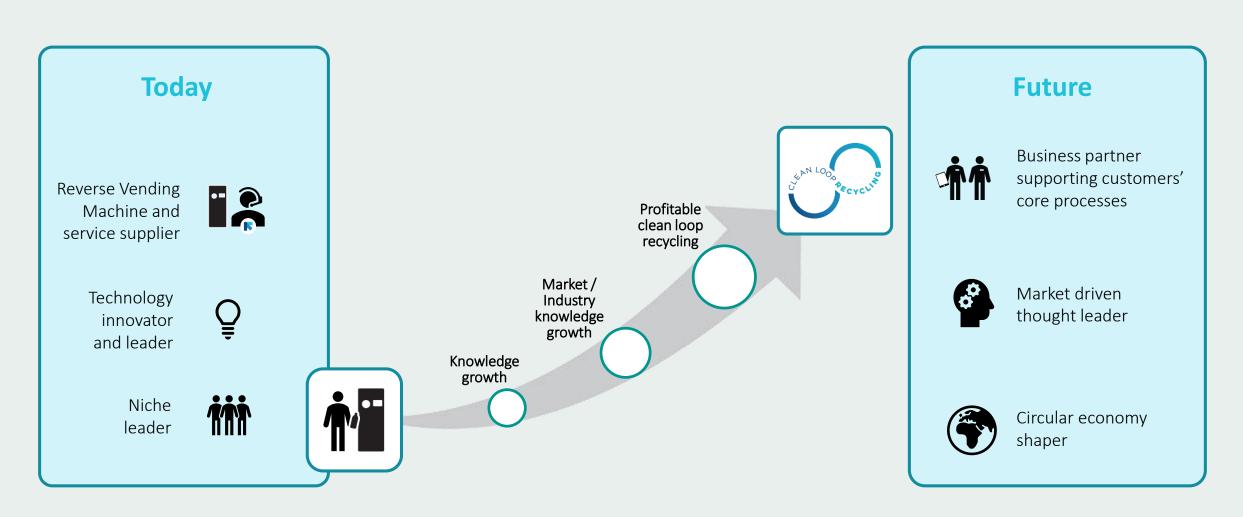




The smarter TOMRA system.



Moving from a reverse vending machine provider to a global frontrunner within clean loop recycling





Strong competitive advantages and growth focus



Product and service leadership



People to support the growth



Production capacity and supply chain



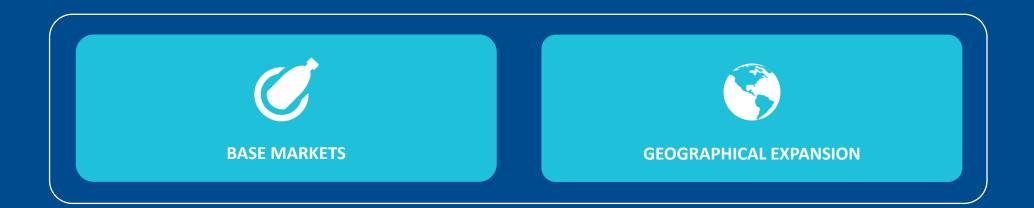
Strong brand awareness



Efficient new market entry

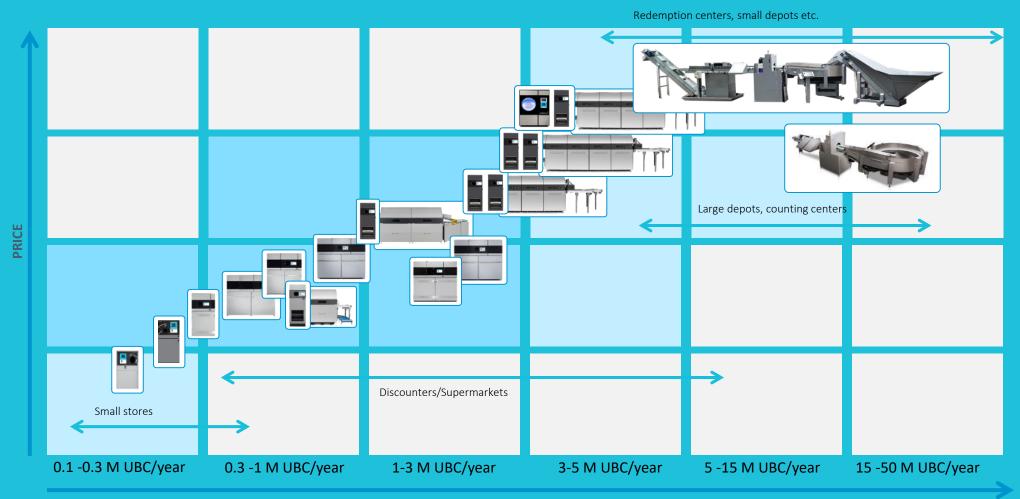


Financial strength to support throughput business models

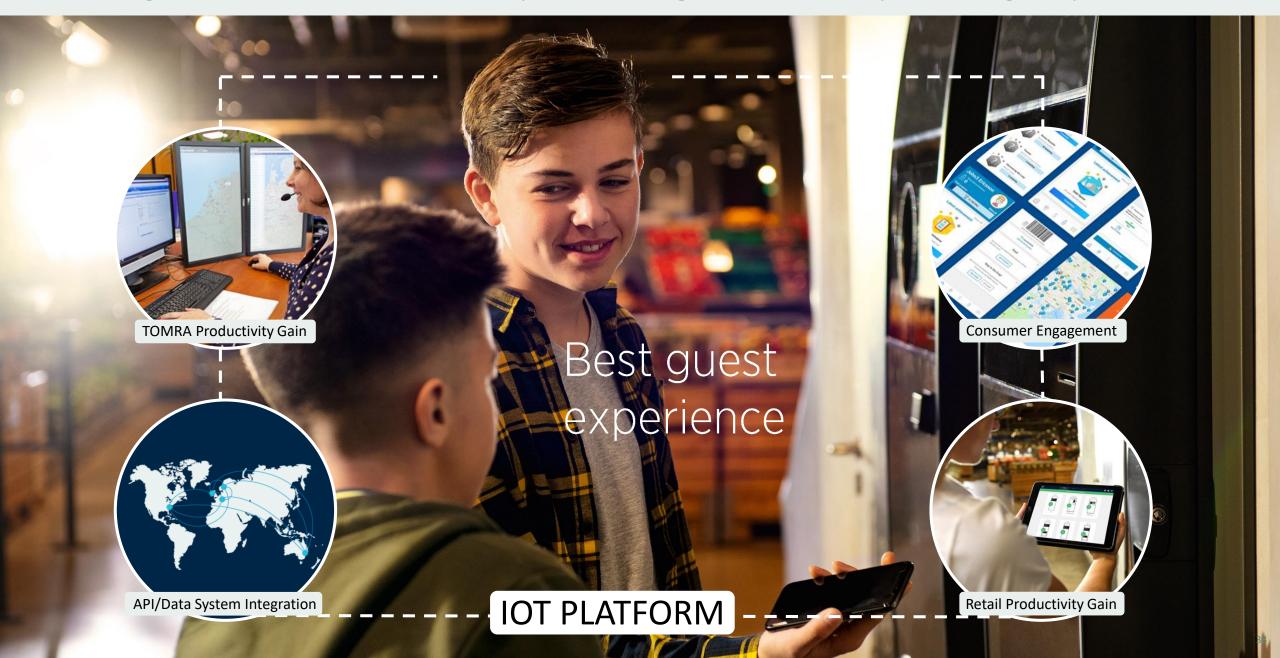




Flexibility and scalability to enable new business models and new market entry



Strengthen our customers' competitive edge with our superior digital platform



Engage consumers to drive volume in throughput markets

Deliver a convenient and engaging recycling experience for consumers that increase the participation and drive volume through our installations.



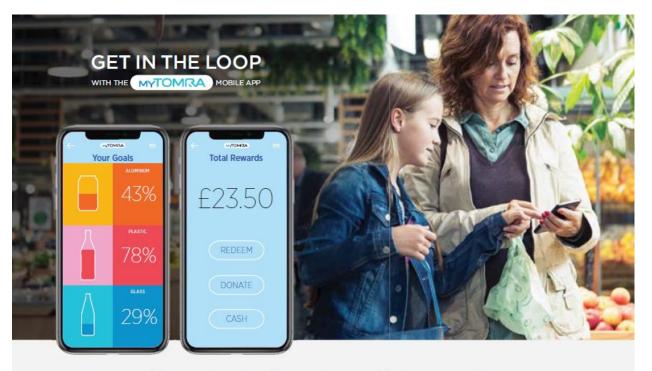




Modernize and enhance the consumer journey







Keep track of your recycling rewards with the myTOMRA app.

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follow us to stay in the Loop











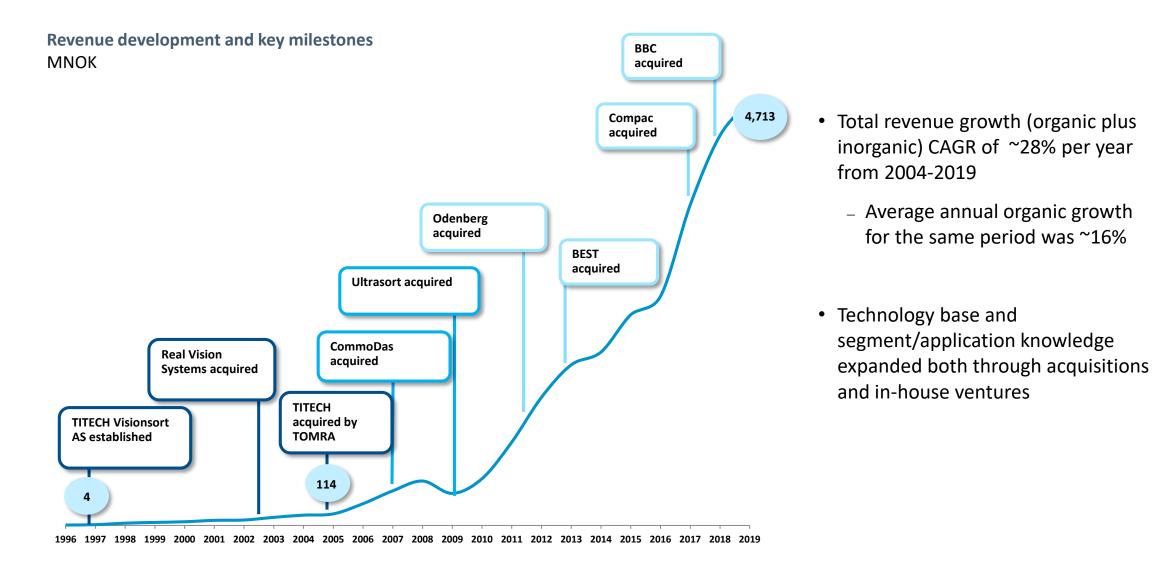
A dynamic organization catered for growth

Products and services	FROM		Machine centric	то	Holistic solution partner
People	FROM		Basic activities	ТО	People development
Production and supply chain	FROM		Supplemented y third parties	то	Scalable with third parties
TOMRA Brand	FROM	† I	B2B RVM Supplier	то	B2H Thought leader Business Partner
Process and New market entry	FROM	•	HQ Regions	то	HQ Global processes New Regions Markets
Financials	FROM	S&S	Sales & Services	то	S&S + TP Recurring revenues





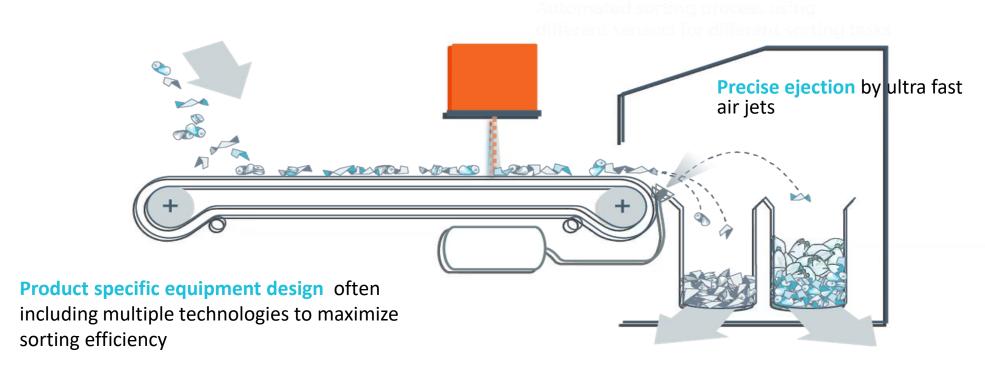
Strong revenue growth since inception in 1996



How does sensor-based separation work?

Feeding of unsorted material

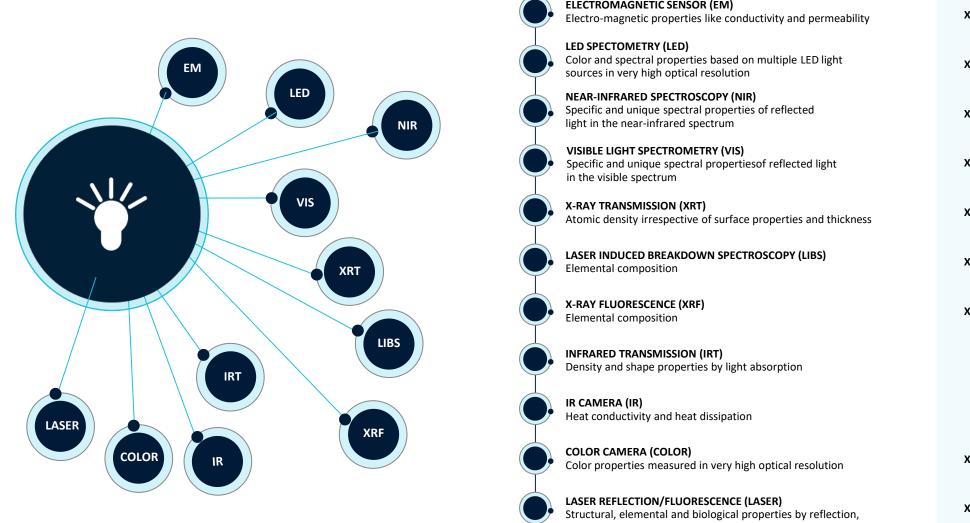
High-tech sensors to identify objects



High-speed processing of information (material, shape, size, color, defect, damage and location of objects)



A common sensor-based technology portfolio



		RECYCLING	MINING	FOOD
	ELECTROMAGNETIC SENSOR (EM) Electro-magnetic properties like conductivity and permeability	х	х	х
•	LED SPECTOMETRY (LED) Color and spectral properties based on multiple LED light sources in very high optical resolution	x	x	x
•	NEAR-INFRARED SPECTROSCOPY (NIR) Specific and unique spectral properties of reflected light in the near-infrared spectrum	х	x	х
•	VISIBLE LIGHT SPECTROMETRY (VIS) Specific and unique spectral properties of reflected light in the visible spectrum	x	х	х
	X-RAY TRANSMISSION (XRT) Atomic density irrespective of surface properties and thickness	x	X	x
	LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS) Elemental composition	х		
•	X-RAY FLUORESCENCE (XRF) Elemental composition	х	x	
	INFRARED TRANSMISSION (IRT) Density and shape properties by light absorption			X
	IR CAMERA (IR) Heat conductivity and heat dissipation			X
	COLOR CAMERA (COLOR) Color properties measured in very high optical resolution	х	x	Х
	LASER REFLECTION/FLUORESCENCE (LASER) Structural, elemental and biological properties by reflection, absorption and fluorescence of laser light	x	x	X



Our products are detecting a wide range of parameters



Color

Removal of discolorations in monoand mixed-color material



Blemishes

Objects with spots or other (small) blemishes are removed



Defects

Removal of visible and invisible small and substantial defects



Structure

Removal of soft, molded or rotten food



Density

Detection of density differences



Damage

Broken, split and damaged objects are detected and removed



Invisible



Shape & Size

Sort on length, width, diameter, area, broken-piece recognition, ...



Biometric Characteristics

Sort based on water content and removal of micotoxyn contaminations



Foreign Material

Removal of foreign material in a material stream, e.g. insects, worms, snails or plastics in food applications



Fluo

Based on the chlorophyll level present in produce defects are removed



X-RAY

Analysis of objects based on their density and shape



Detox

Removal of produce contaminated with aflatoxin



EFFICIENCY REDUCES COSTS



OPERATIONAL

There are three main components to our value proposition

INCREASED PURITY OF MATERIAL STREAM

INCREASES REVENUE

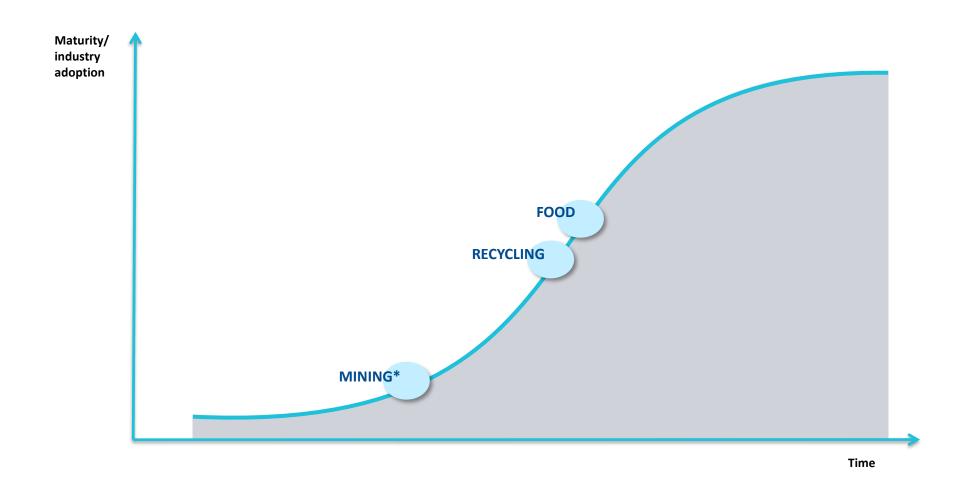








Adoption of sensor-based sorting at different maturity levels



^{*} In certain mining sub-segments, such as industrial minerals and diamonds, sensor-based sorting is a more mature technology



Examples of cross utilization of our sensor technologies



platform

Field Potato Sorter

- The NIR technology allows efficient removal of rocks, dirt and rotten potatoes before the potatoes are stored
- The solution opens up sorting of unwashed potatoes in a way that previously was not possible



BEST LASER + TOMRA mining platform

PRO Laser Duo

- The LASER technology allows detection of quartz of all colors. This opens for sorting of quartz itself, and gold bearing quartz mineralization
- The solution is unique in the market and further underlines our technological leadership



TITECH NIR + BEST LASER

Nimbus BSI

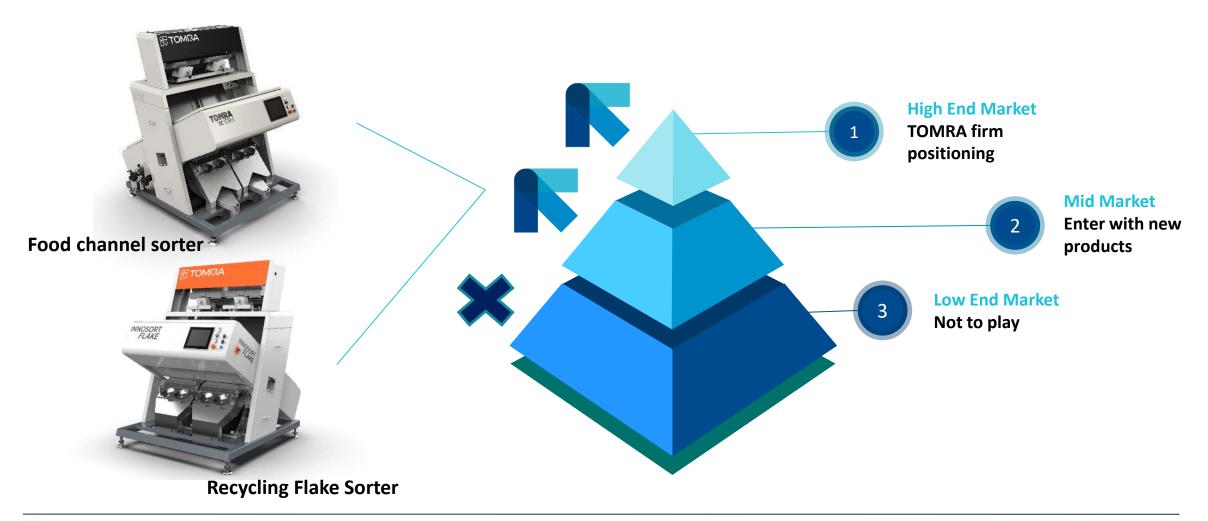
- An NIR sensor has been added to the NIMBUS machine platform
- The new machine increases our competitiveness in the nuts segment

Several more projects on combining technologies into new products in the pipeline



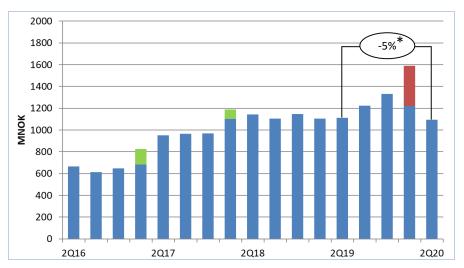
Entering new markets through Mid-market strategy

Creating competitive offering to fast growing mid-market

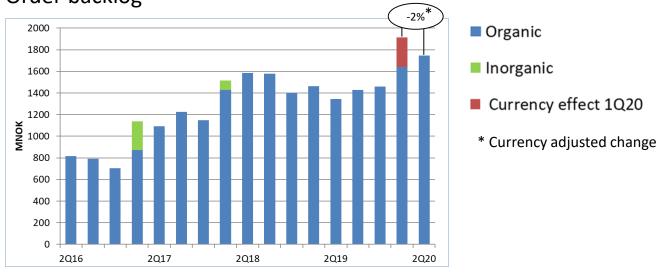


Development in order intake and order backlog

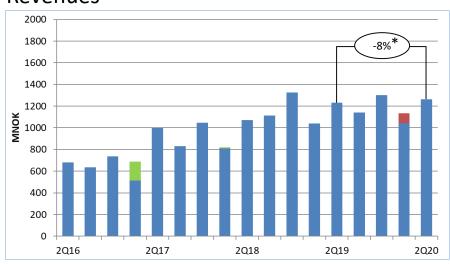
Order intake



Order backlog



Revenues



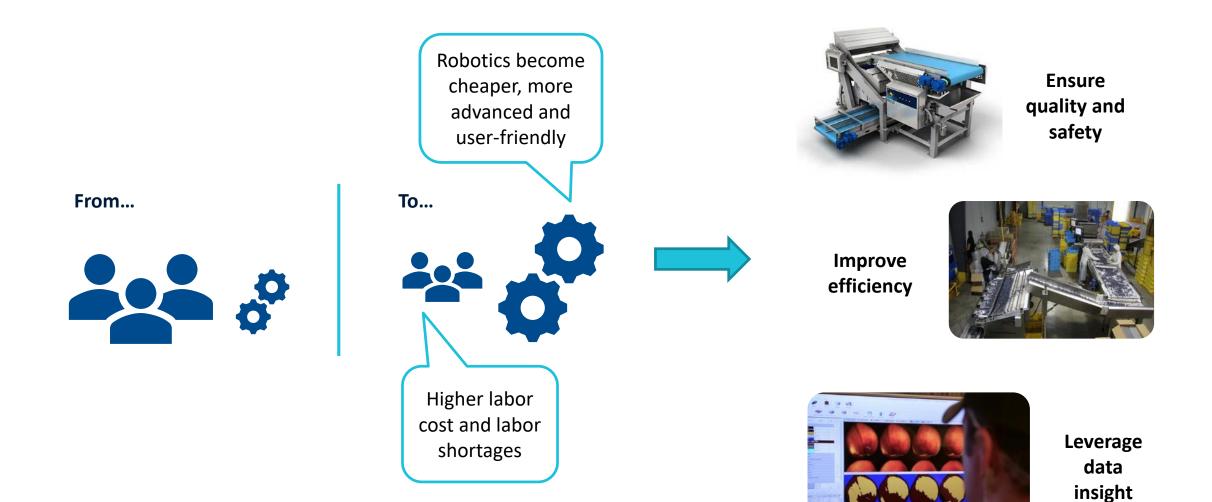
TOMRA Sorting Solutions:

- Revenues of 1,264 MNOK, up from 1,230 MNOK last year, down 8% currency adjusted
- Order intake of 1,095 MNOK in the quarter, compared to 1,111
 MNOK same quarter last year, down 5% currency adjusted
- Order backlog of 1,746 MNOK at the end of 2Q20, down from 1,915 MNOK at the end of 1Q20 – down 2% currency adjusted
- Estimated backlog conversion ratio in 3Q20: 70%**



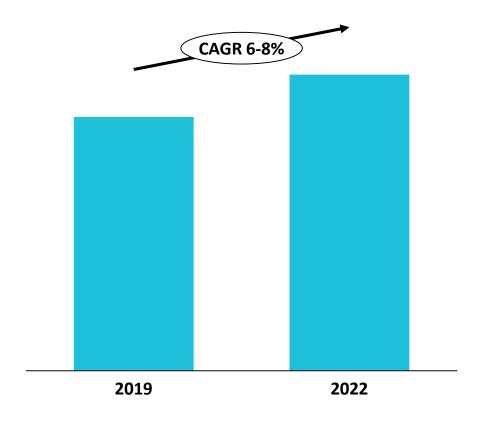


Automation continues on a strong growth trajectory





Market growth expectations – food



MARKET DEFINITION FOOD

Sensor-based sorting and grading equipment

- Including color sorting
- Excluding peripheral equipment and turn-key solutions

Fresh and processed segment

Weather conditions Manual labor availability and cost Global trade agreements and tariffs Weather conditions Raw material pricing Urbanization and living standards Geopolitical and other global events

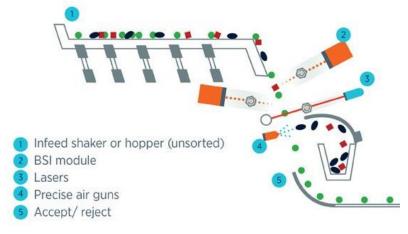
Three ways of sorting within the Food segment

Free fall (Channel / Chute)		
Application Seeds, rice, grains		
Sensor tech.	Camera (simple)	
Revenue share* Approx. 60%		

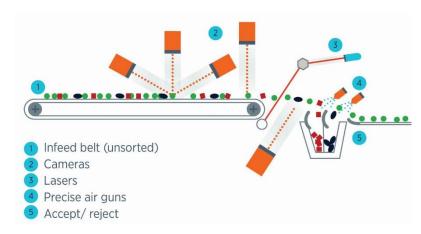
Belt	
Application	Prepared /preserved veg. and fruit
Sensor tech.	Several (complex)
Revenue share	Approx. 20%

Lane	
Application	Fresh produce
Sensor tech.	Several (medium)
Revenue share	Approx. 20%

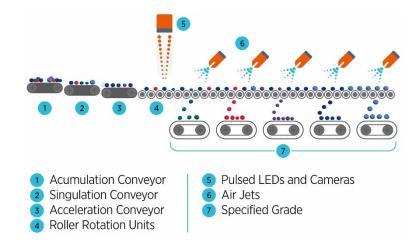
Chute or Channel sorter



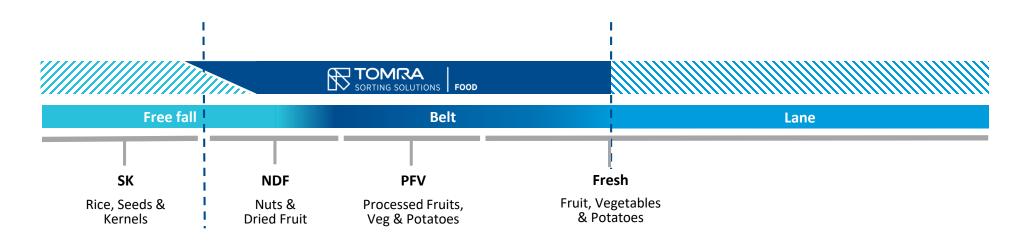
On belt inspection

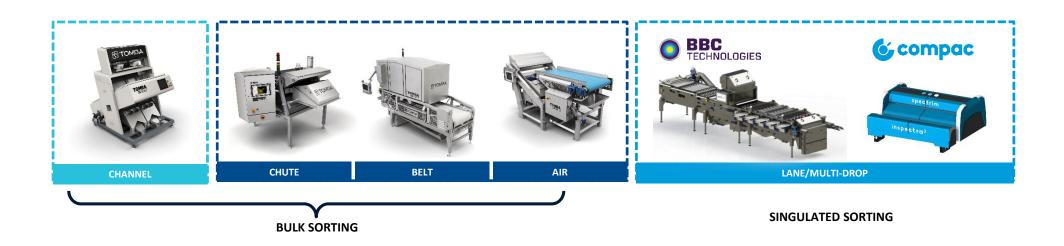


Lane grading



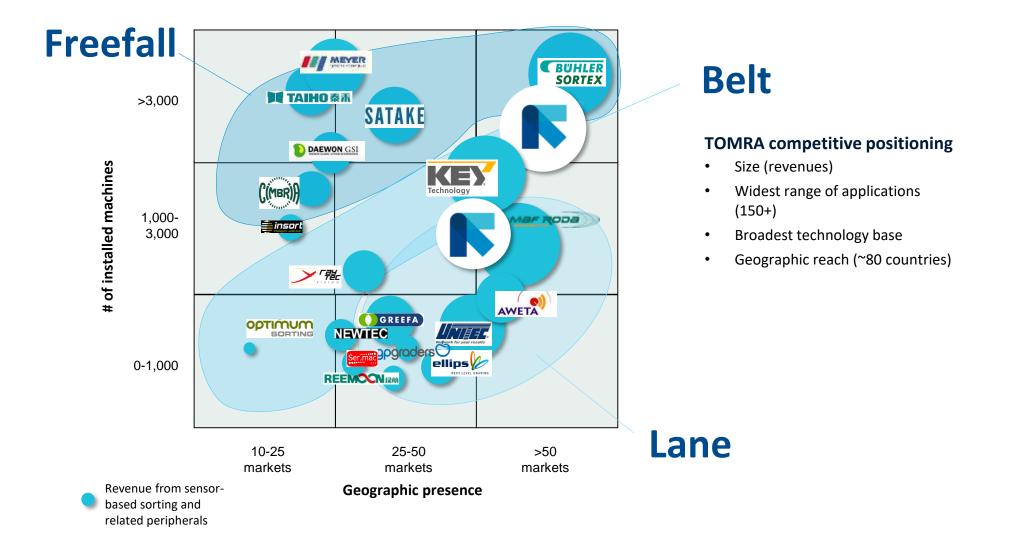
TOMRA has established the broadest footprint within food sorting







Food competitive landscape





Food: applications and sensor technology

POTATOES



Chips, French fries, peeled, specialty products, sweet potatoes, unpeeled, washed

LASER, CAMERA, BSI, PULSED LED

VEGETABLES



Beans, beets, broccoli, carrots, corn, cucumbers, industrial spinach, IQF vegetables, jalapenos/peppers, onions, peas, pickles

LASER, CAMERA, BSI, PULSED LED

NUTS



Almonds, cashews, hazelnuts, macadamias, peanuts, pecans, pistachios, walnuts

LASER, CAMERA, X-RAY

DRIED FRUIT



Apricots, cranberries, dates, figs, prunes, raisins

LASER, CAMERA, BSI, X-RAY

SEEDS & GRAINS



Barley, coffee, corn, dry beans, lentils, oat, pulses, pumpkin, sunflower and watermelon seeds, wheat

LASER, CAMERA, BSI, X-RAY

FRUIT



Apples, blackberries, blueberries, cherries, cranberries, peaches & pears, raspberries, strawberries, tomatoes

LASER, CAMERA, BSI, PULSED LED

FRESH CUT



Baby leaves, iceberg lettuce, spinach, spring mix

LASER, CAMERA

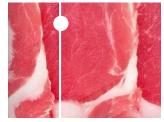
SEAFOOD



Mussels, scallops, seaweed, shrimps, tuna, pet food

LASER, CAMERA, BSI, X-RAY, INTERACTANCE SPECTROSCOPY

PROTEIN



Bacon bits, beef, chicken breasts, hot dogs, IQF meat, pork, pork rind, sausages, pet food

LASER, CAMERA, BSI, INTERACTANCE SPECTROSCOPY

OTHERS

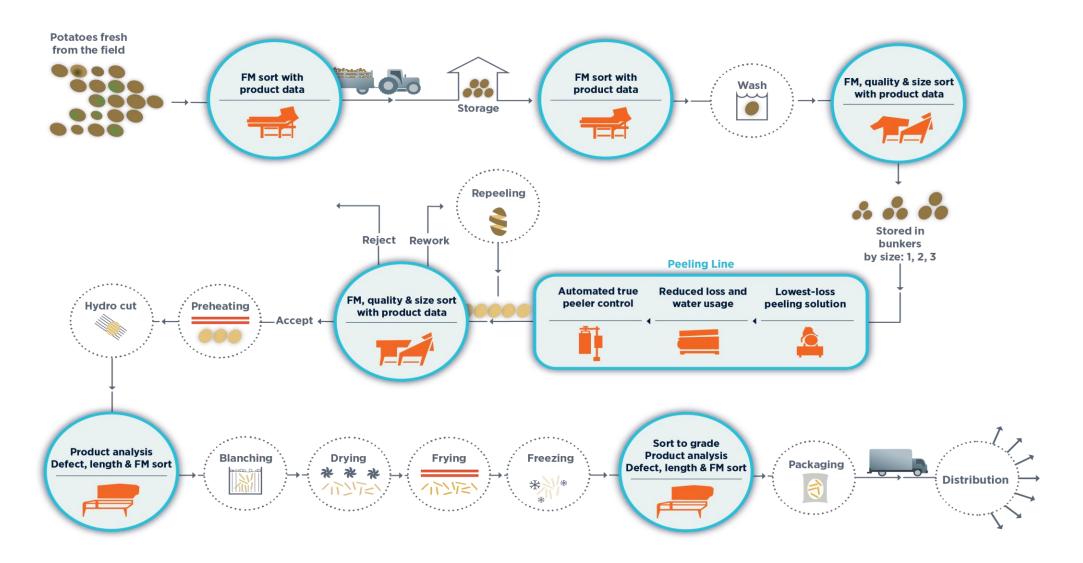


Gummies, Tobacco

LASER, CAMERA



Creating value in various parts of the food process





Our food sorting customers





































































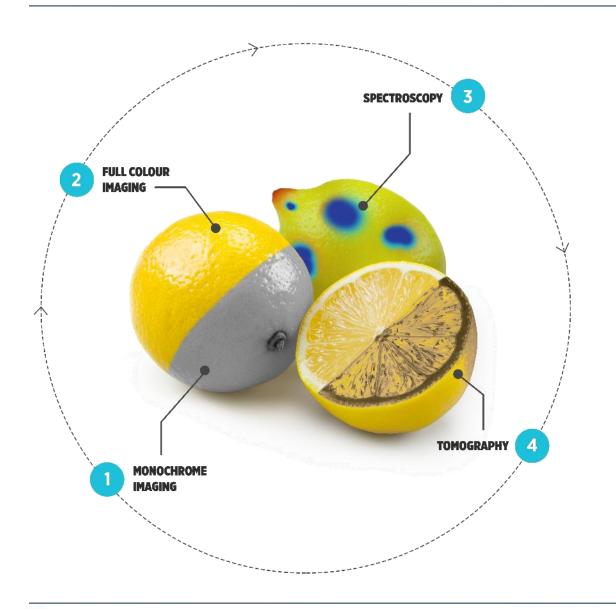








New sensor technologies will unlock new opportunities...



• From measuring visual appearance...

... to measuring

Internal defects

Taste

Shelf life / Freshness

Food hazards

RESOURCES ARE FINITE

- Today: we are paying to get rid of our waste through landfill fees and incineration
- We are wasting perfectly good materials that can be reused
- Tomorrow: The Circular Economy is a driver for change
- Creating value out of waste
- That is what the **Circular Economy** is all about



The circular economy drives a legislative push...

Continued ambitious EU regulations and recycling targets:
Attract capital and drives investments



 From Green Fence to National Sword: Short-term demand for recycling solutions in waste exporting countries



- Limits the import of contaminated recyclable commodities and increases inspections of recyclable commodity imports
- Purity level set to 99.5%



...promoting recycling



Description

Targets and measures

Waste Framework Directive

• Rules on how waste should be managed in the EU. It provides general principles for doing so, such as the Waste Hierarchy, Polluter Pays Principle and Extended Producer Responsibility.

Packaging and Packaging Waste Directive

- Rules on the production, marketing, use, recycling and refilling of containers of liquids for human consumption and on the disposal of used containers
- 2015 revision includes lightweight plastic carrier bags

Waste Electrical and Electronic Equipment (WEEE) Directive

- Collection, recycling and recovery targets for all types of electrical goods
- 10 categories: Large household appliances, Small household appliances, IT and telco equipment, Consumer equipment, Lighting equipment, Electrical and electronic tools, Toys, Leisure and sports equipment, Medical devices, Monitoring and control instruments, Automatic dispensers

Landfill Directive

- The objective of the Directive is to prevent or reduce as far as possible negative effects on the environment from the landfilling of waste
- In particular: impact on surface water, groundwater, soil, air, and on human health by introducing stringent technical requirements for waste and landfills.

End of Life Vehicle (ELV) Directive

- Aims at reduction of waste arising from end-of-life vehicles
- The scope of the directive is limited to passenger cars and light commercial vehicles

A common EU target for recycling 60% of municipal waste by 2030

- A common EU target for recycling 70% of all packaging waste by 2030
- A common EU target for recycling 55% of all plastics by 2030
- A binding landfill target to reduce landfill to maximum of 10% of municipal waste by 2030
- Minimum requirements are established for extended producer responsibility schemes
- Simplified and improved definitions and harmonized calculation methods for recycling rates
- Concrete measures to promote reuse and stimulate industrial symbiosis
- Economic incentives for producers to put greener products on the market and support recovery and recycling schemes











...and a market pull







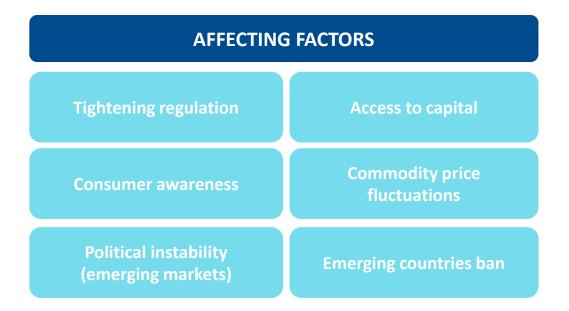
Large companies committing to use recycled raw materials = increased demand for recycled offtake

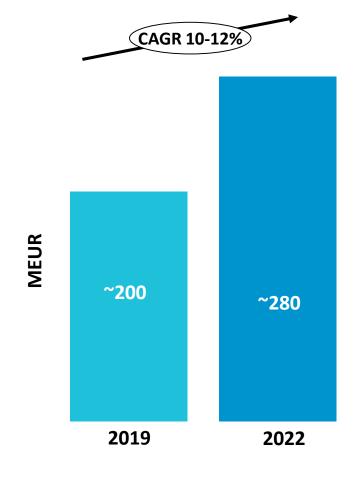
Recycling: market growth expectations

MARKET DEFINITION RECYLING

Sensor-based sorting equipment

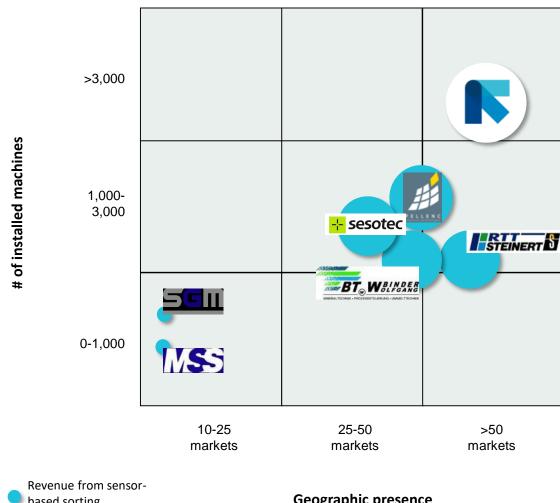
- Excluding cullet glass sorting
- Excluding peripheral equipment and turn-key solutions







Recycling: competitive landscape



TOMRA competitive positioning

- Largest installed base
- Highest revenues
- Broadest technology platform on WR
- Highest number of applications and markets served
- Leading brand
- Market share: 55-60%

Geographic presence

Recycling: applications and sensor technology

MUNICIPAL SOLID WASTE



Hard plastics, plastic film, mixed paper, RDF, metals, organics/biomass

NIR, VIS, XRT, LASER

POST-SHREDDER



NF metal, stainless steel, copper cables, copper, brass, aluminum

NIR, VIS, XRT, XRF, EM, COLOR

PACKAGING



Plastics, plastic film, cardboard, mixed paper, deinking paper, metal

NIR, VIS, EM

ELECTRONIC SCRAP



Printed circuit boards, non-ferrous metal concentrates, cables, copper, brass, stainless steel

XRT, XRF, EM, NIR, COLOR

UPGRADING PLASTICS



PET, PE, PP, flakes

NIR, VIS, EM

PAPER



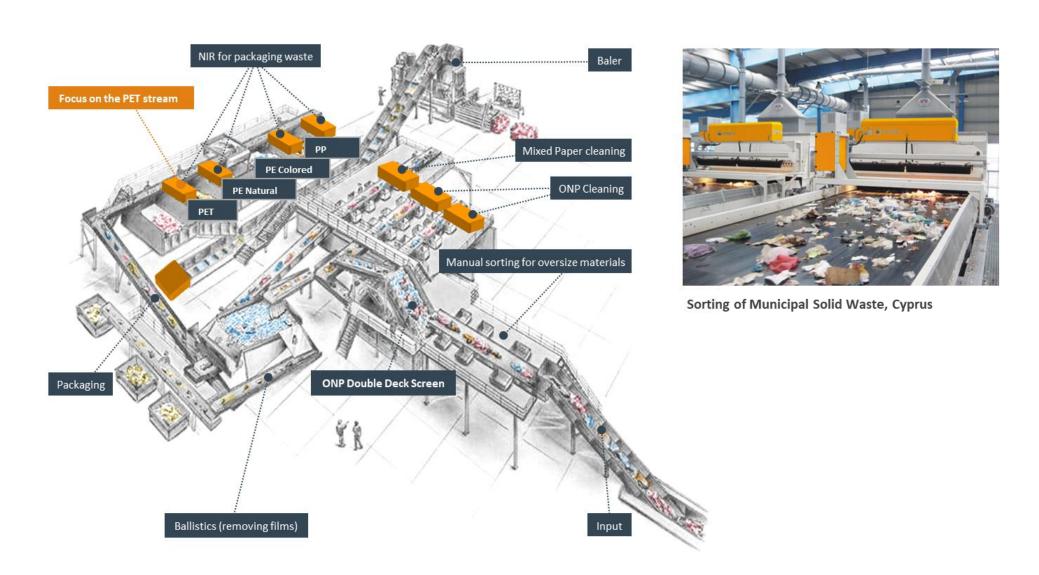


Deinking, cardboard, carton

NIR, VIS, EM



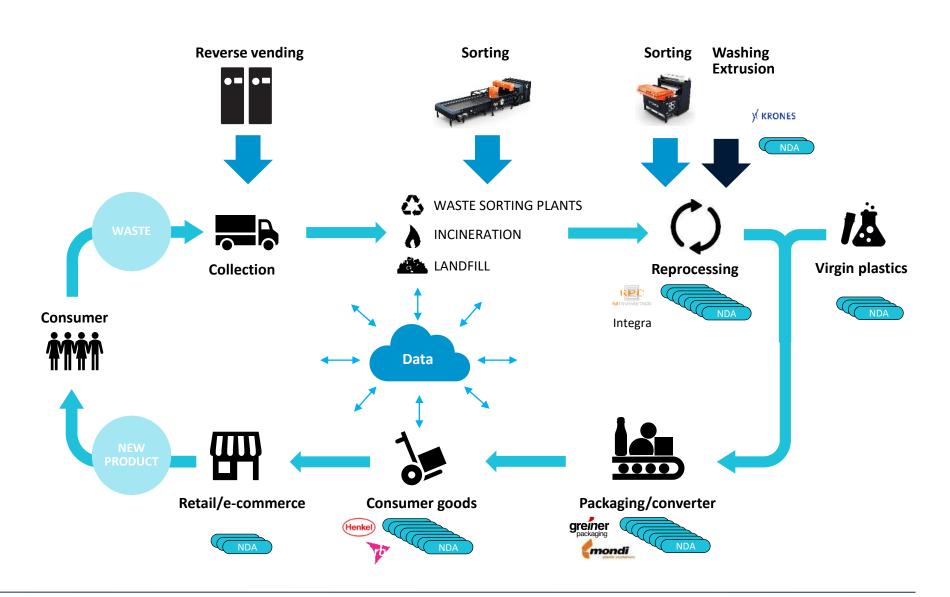
Automation with TOMRA Sorting units



Industrializing the process for recycled plastic

SUCCESS FACTORS

- Sufficient demand for the recycled material
- Output to be of high quality and stable quantity in order to replace virgin material
- Political leadership that sets targets and monitors
- Access to capital and willingness to invest
- Collaboration with multiple partners on commercialization





INTELLIGENT MINE

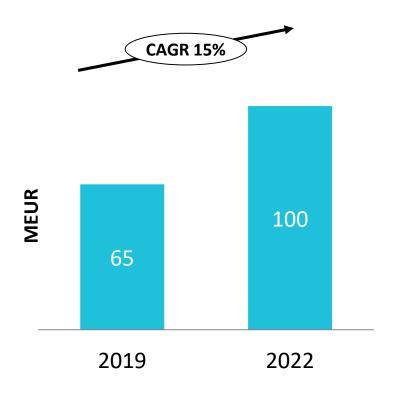
 Mining is an old industry. But chances are that it will it look very different in 10 years time

- Energy intensity and water stress are major drivers...
- ...for disruptive technology forces to reshape the industry
- Commodity prices and capex impact the investment sentiment



Mining: market growth expectations

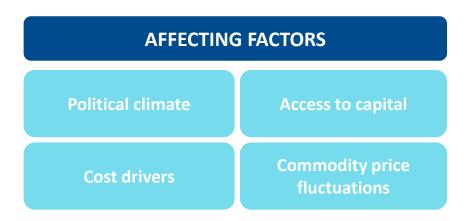
Total annual market size



MARKET DEFINITION MINING

Sensor-based sorting equipment

- is still a technology to be accepted
- Growth is conditional on new applications and technologies being developed



Mining: applications and sensor technology

INDUSTRIAL MINERALS



Phosphate-silica removal, limestone-silica removal, quartz upgrade, MgO₂-silica removal, fluorite pre-conc., talc pre-conc., lithium pre-conc., barite pre-conc.,

COLOR, XRT, NIR

NON-FERROUS METALS



Copper, zinc, gold, nickel, tungsten, silver, platinum group metals

XRT, COLOR, EM, NIR

DIAMONDS



Kimberlite-waste removal, diamond ROM conc., diamonds final recovery, emeralds ROM conc., rubies ROM conc.

COLOR, XRT, NIR

FUEL



Coal waste dumps

XRT

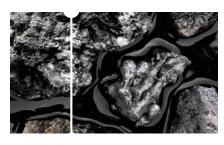
FERROUS METALS



Iron ore grading, hematite preconc., manganese pre-conc., chromite pre-conc.

XRT, EM, NIR

SLAG



Stainless steel slag, ferro silica slag, ferro chrome slag

XRT, EM



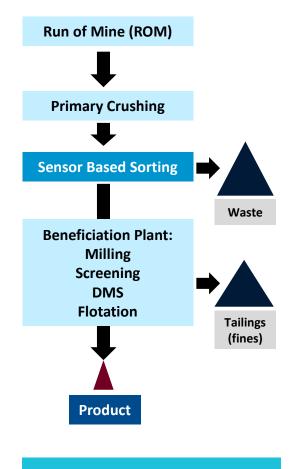
The concept of sensor-based sorting in mining

Mining process: **Industrial minerals** Run of Mine (ROM) **Primary Crushing Secondary Crushing Sensor Based Sorting** Waste **Product**



- 15% to 50% of the ROM can be rejected in an early stage of the process (application dependent)
- These low grade waste rocks don't need to be transported, crushed, grinded or further treated

Mining process: Metal mining

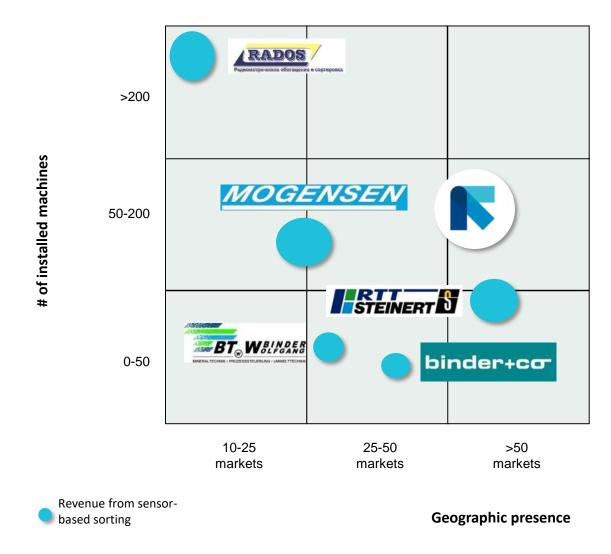


Potential new segment

Current segment



Mining: competitive landscape

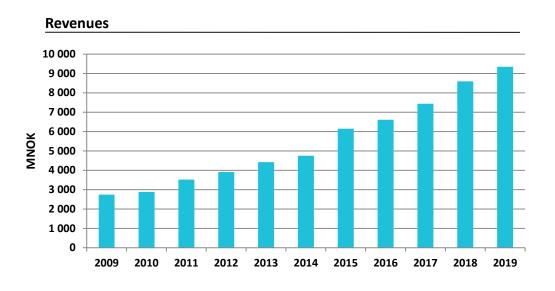


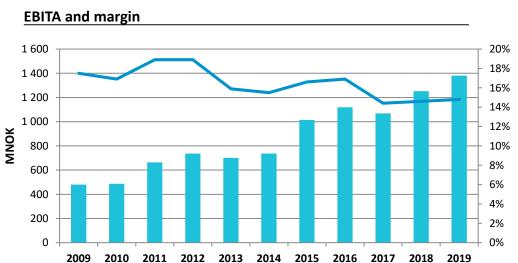
TOMRA competitive positioning

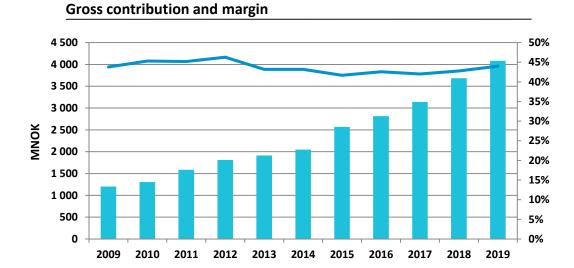
- Wide geographical coverage
- Broadest technology platform
- Leading brand
- Market share: 40-50%

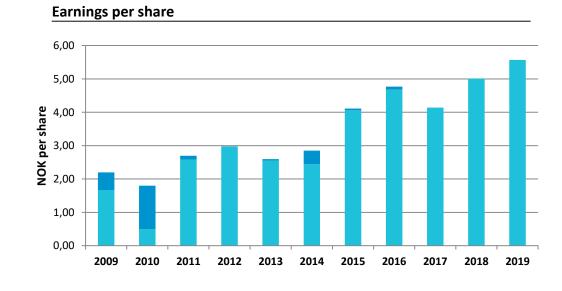


Group financials development – solid track record



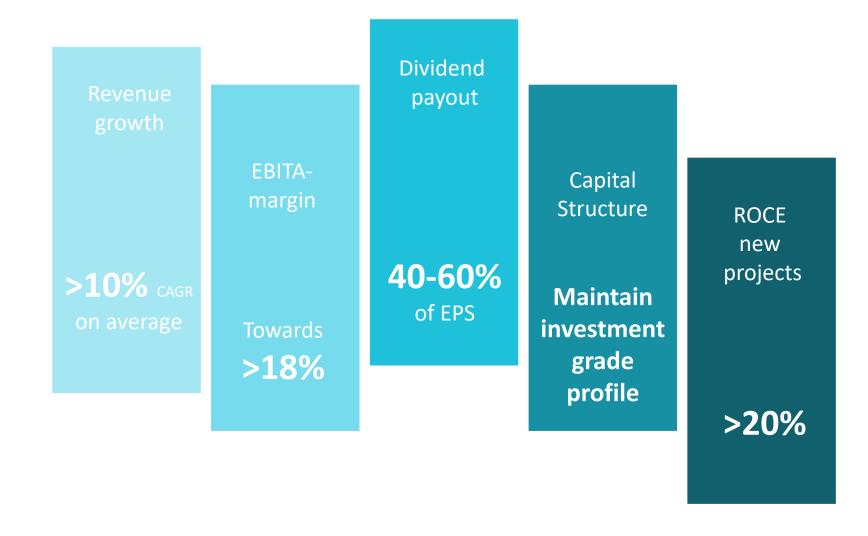






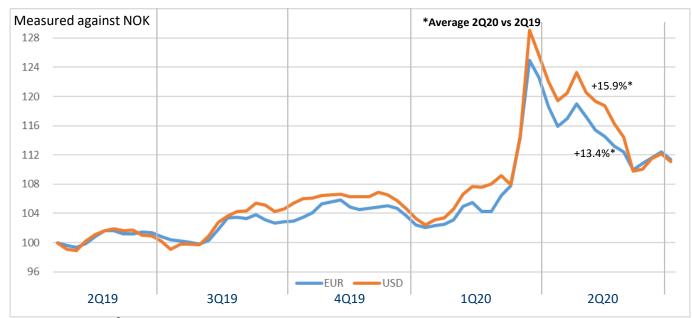


Group financial targets 2018-2023 – our ambitions affirmed





Currency risk and hedging policy



Revenues and expenses per currency:

	EUR ¹	USD	NOK	OTHER ²	TOTAL
Revenues	45 %	35 %	0 %	20 %	100 %
Expenses	40 %	25 %	5 %	30 %	100 %

Assets and liabilities per currency:

	EUR ¹	USD	NOK	OTHER ²	TOTAL
Assets	50 %	15 %	15 %	20 %	100 %
Liabilities	60 %	10 %	20 %	10 %	100 %

¹ EUR includes DKK

NOTE: Estimated and rounded figures

10% change in NOK towards other currencies will impact:

	Revenues	Expenses	EBITA
EUR*	4.5%	4.0%	7.0%
USD	3.5%	2.5%	8.0%
OTHER**	2.0%	3.0%	-4.0%
ALL	10.0%	9.5%	11.0%

HEDGING POLICY

CASHFLOW AND P/L

 TOMRA can hedge up to one year of future predicted cash flows. Gains and losses on these hedges are recorded at the finance line, not influencing EBITA

B/S

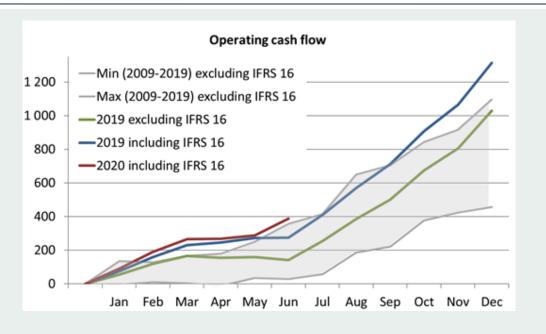
 TOMRA only hedges B/S items where exchange rate fluctuations could have P/L impact. Gains and losses on B/S hedging are recorded in accordance with IAS 21 and will normally not have P/L impact



² Most important: AUD, NZD, RMB, CAD, SEK, GBP and JPY

Financial highlights | Balance sheet and cash flow

	30 J	31 Dec	
Amounts in NOK million	2020	2019	2019
ASSETS	12,036	10,761	10,868
Intangible non-current assets	4,087	3,753	3,788
Tangible non-current assets	2,436	2,321	2,330
Financial non-current assets	433	330	406
Inventory	1,941	1,619	1,596
Receivables	2,680	2,422	2,288
Cash and cash equivalents	459	316	460
LIABILITIES AND EQUITY	12,036	10,761	10,868
Equity	5,880	4,760	5,247
Lease liabilities	1,128	1,110	1,102
Interest-bearing liabilities	2,048	2,208	1,880
Non interest-bearing liabilities	2,980	2,683	2,639



Cashflow from operations

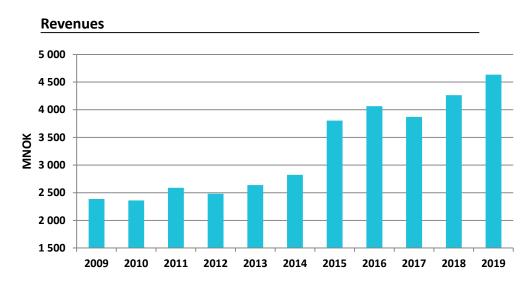
• 123 MNOK in the second quarter (45 MNOK in second quarter 2019)

Solidity and gearing

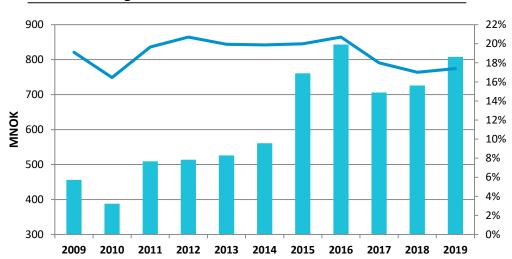
- 49% equity ratio
- NIBD/EBITDA (Rolling 12 months)
 - o 1.0x without IFRS 16
 - 1.4x including IFRS 16



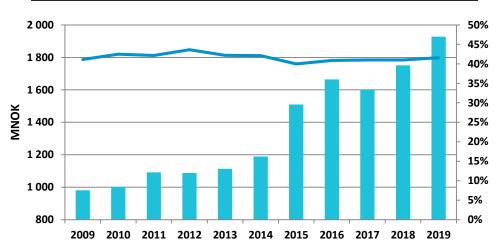
Collection solutions – segment financials



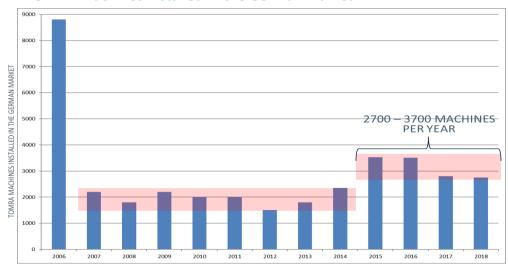




Gross contribution and margin

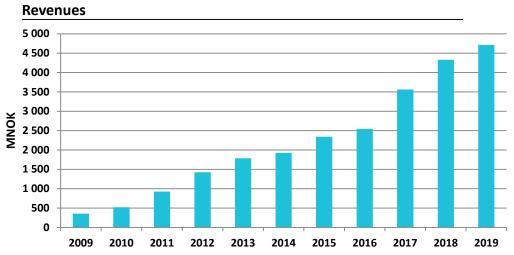


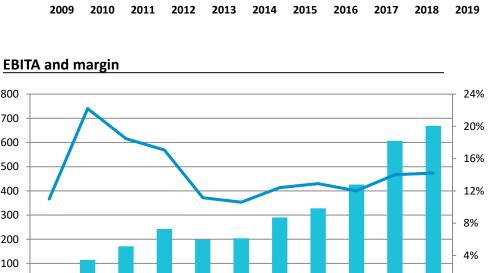
TOMRA machines installed in the German market



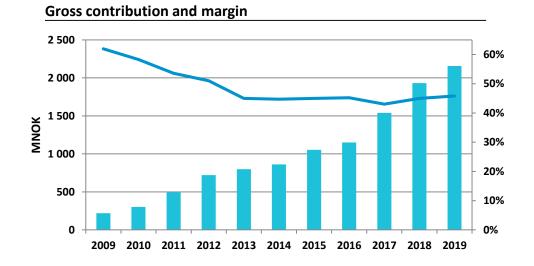


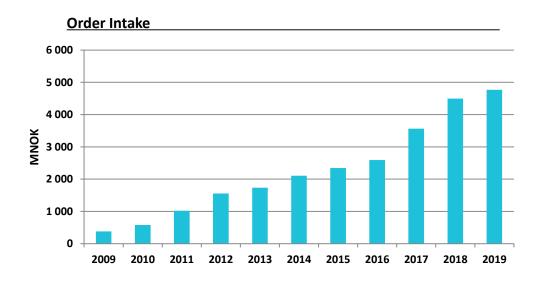
Sorting solutions – segment financials





2010 2011 2012 2013 2014 2015 2016 2017 2018 2019





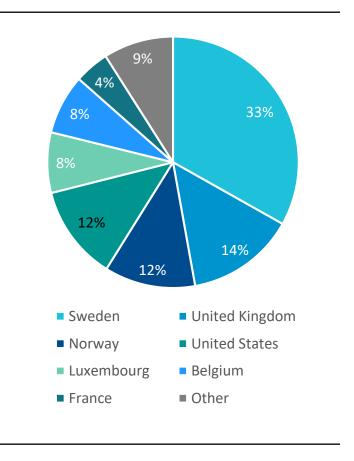


Shareholder structure

Top 10 shareholders as of 01 J	uly 2020

1	Investment AB Latour	31 200 000	21,1 %	
2	Folketrygdfondet	10 854 938	7,3 %	
3	The Bank of New York Mellon SA/NV	7 978 000	5,4 %	(NOM)
4	State Street Bank and Trust Comp	8 171 915	5,5 %	(NOM)
5	Clearstream Banking S.A.	5 799 242	3,9 %	(NOM)
6	JPMorgan Chase Bank, N.A., London	2 047 919	1,4 %	(NOM)
7	CACEIS Bank	1 941 175	1,3 %	(NOM)
8	J.P. Morgan Bank Luxembourg S.A.	1 779 783	1,2 %	(NOM)
9	Credit Suisse (Luxembourg) S.A.	1 550 211	1,0 %	(NOM)
10	Citibank, N.A.	1 252 918	0,8 %	(NOM)
	Sum Top 10	72 603 101	49.0%	
	Other shareholders	75 416 977	51.0%	
	TOTAL (9.522 shareholders)	148 020 078	100.0%	

Shareholders by country





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