## **INVESTOR PRESENTATION**



TOMRA SYSTEMS ASA 21.10.2019 © TOMRA

## We live in an age with the highest level of consumption our planet has ever seen



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## Using more resources than ever before. More than our planet can continue to sustain.



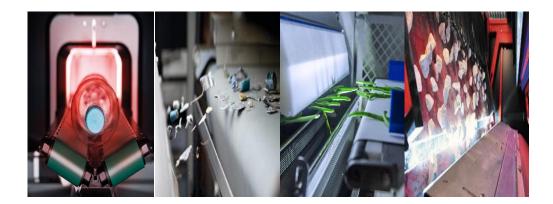
#### TOMRA is well-positioned towards megatrends





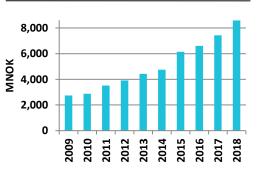


Pioneer in application of sensor-based technology



4 Strong, people minded performance culture

#### Revenues



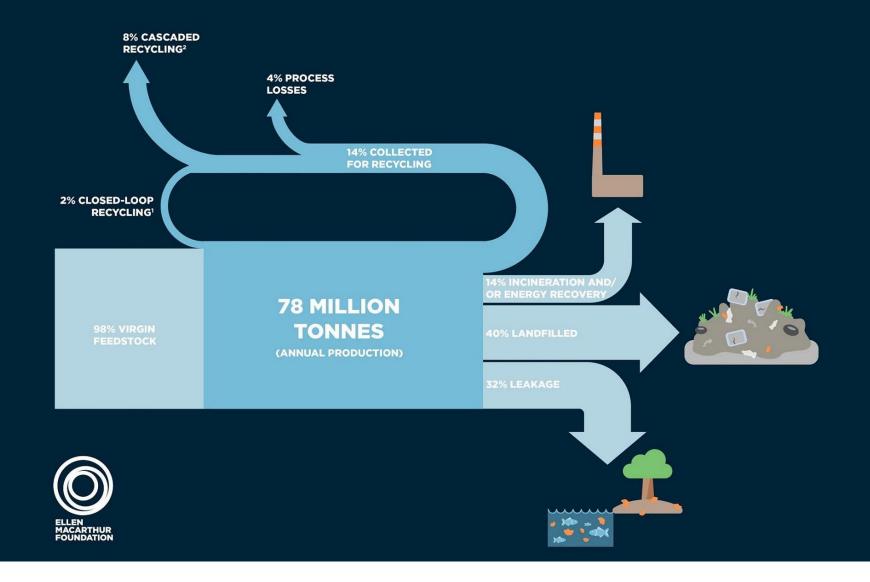


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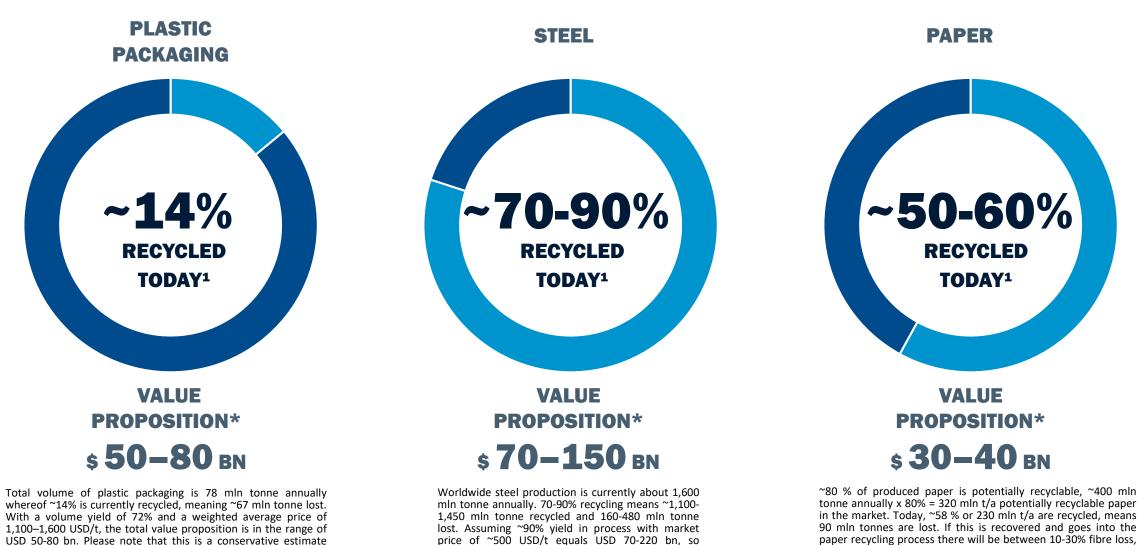
### **DID YOU KNOW?**

- By 2025 solid waste generation will increase by 70% compared to 2010 levels
- 32% of all plastic packaging made ends up in nature every year
- 20% of plastic packaging could be profitably re-used and 50% could be profitably recycled if designed for after use systems
- Continuing current practices there will be
   more plastic than fish in the ocean by
   2050

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



#### Significant untapped potential to reuse good materials



conservative range USD 70-150 bn 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 \* TOMRA ESTIMATES

proposition up to USD 170-190 bn.

based on a narrow definition of total annual plastic packaging

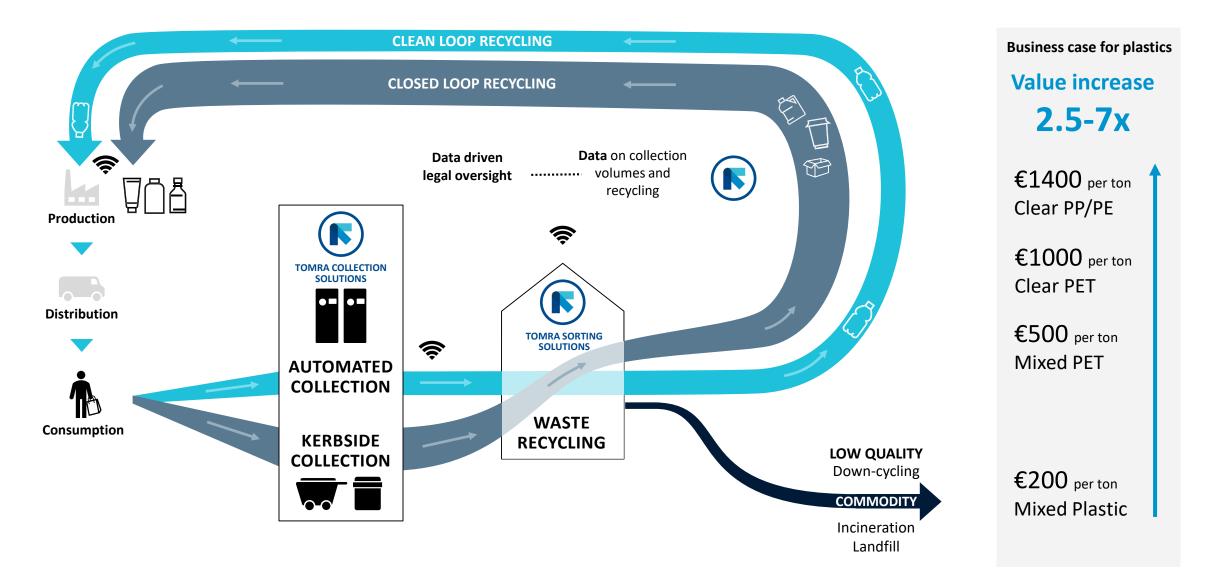
volume. Applying a wider definition can increase the value

\* TOMRA ESTIMATES THE NEW PLASTICS ECONOMY, Ellen MacArthur foundation, 2017 2) Prices from Statististica.com

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1)

#### Circular economy – redefining value creation



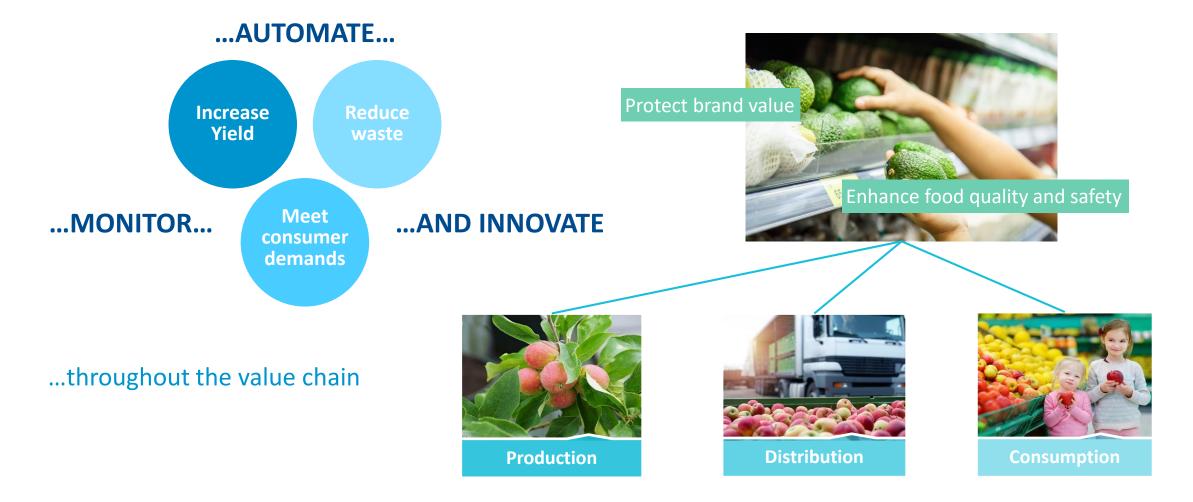
TOMRA

#### **DID YOU KNOW?**

- By 2050, a global population of **9.8 billion will** require 70% more food than is consumed today
- We are currently wasting 33% of global food production
- The food industry accounts for around 10% of global GDP
- Agriculture accounts for 20% of global greenhouse gas emissions

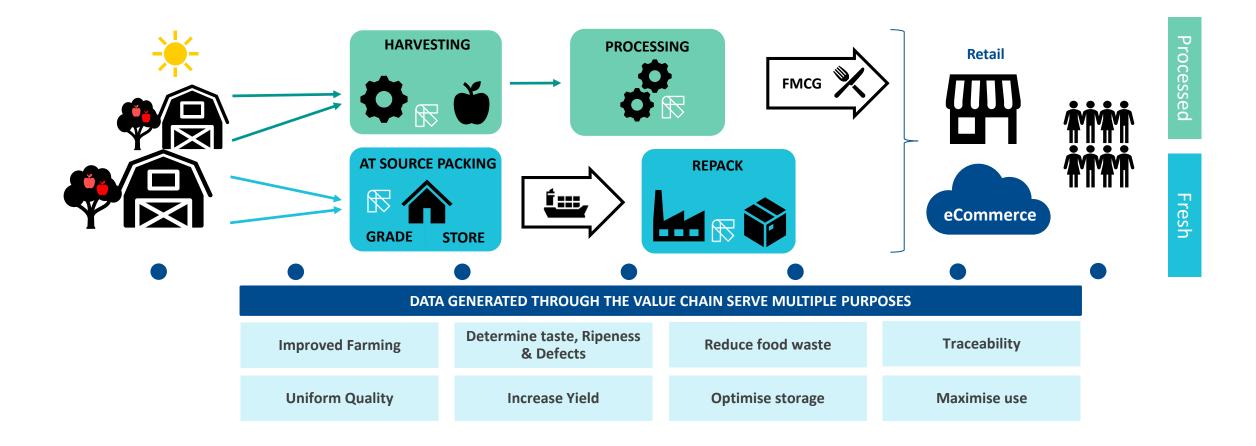
#### New ways of feeding a fast-growing DEMANDING population...

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



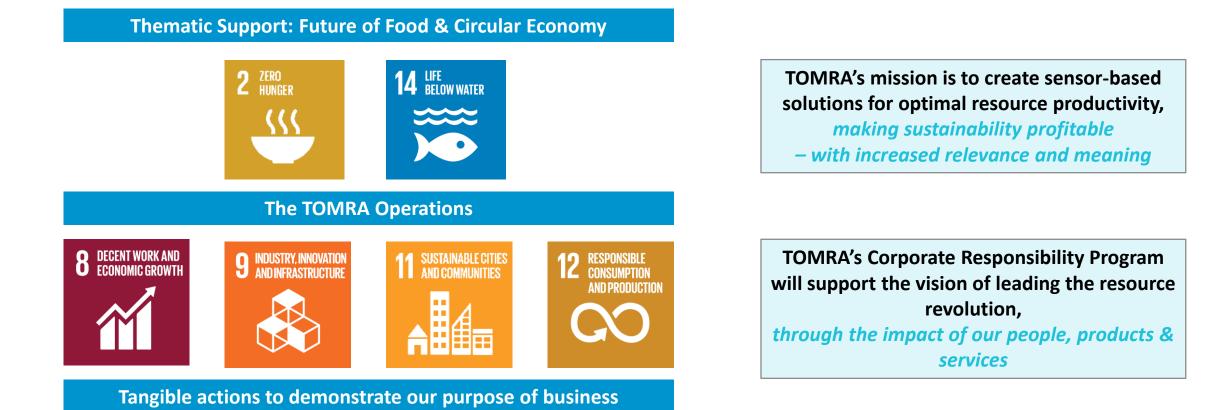
Sources: Brookings

#### TOMRA to play a difference in the FUTURE OF FOOD production





#### Making meaningful contribution along the way



#### 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 ~28 millions of tons of CO<sub>2</sub> from being released into the atmosphere in 2018

 ~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

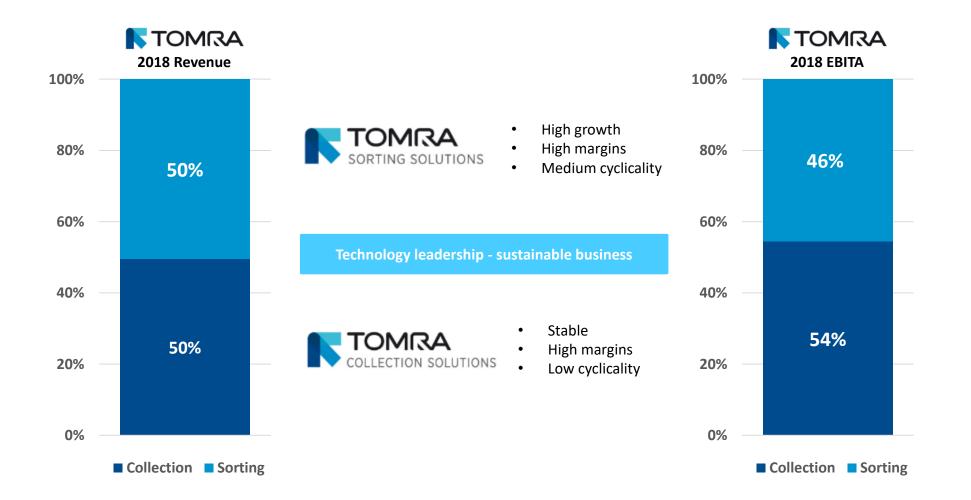


### TOMRA AT A GLANCE

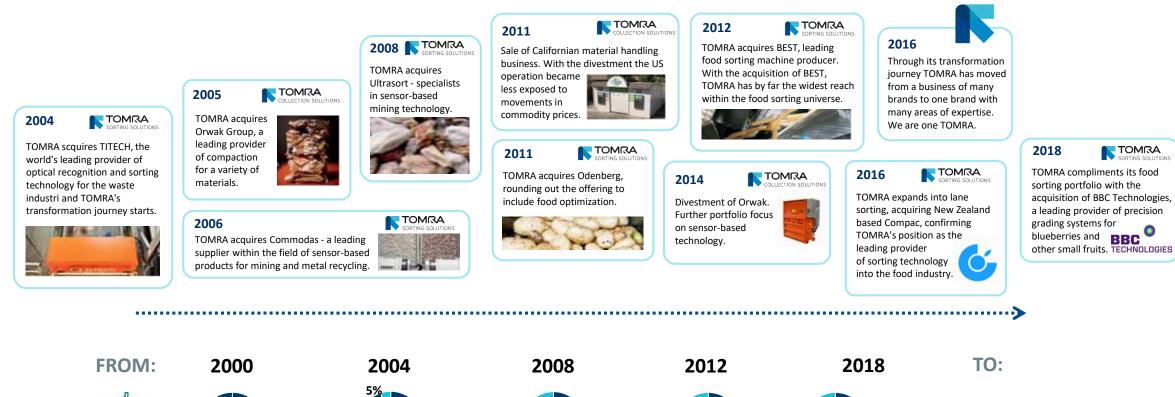


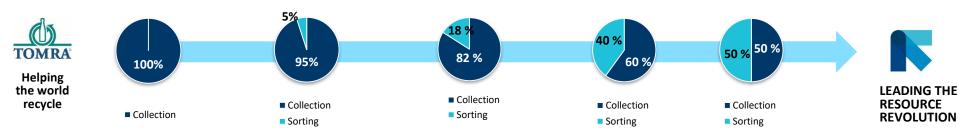


#### Creating value through two strong business areas

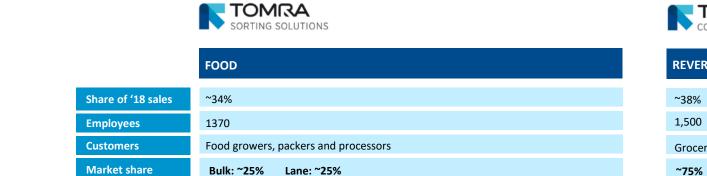


#### The TOMRA transformation journey





#### TOMRA's two business areas



#### RECYCLING

Share of '18 sales	~13%
Employees	240
Customers	Material recovery facilities, scrap dealers, metal shredder operators
Market share	~55-65%

#### MINING

Share of '18 sales	~3%
Employees	80
Customers	Mining companies
Market share	~40-60%

	TOMRA SORTING GROUP FUNCTIONS & SHARED STAFF		
Employees	245		



### **REVERSE VENDING** Grocery retailers MATERIAL RECOVERY

~12% Grocery retailers and beverage manufacturers

#### ~60% in USA (markets served)

590



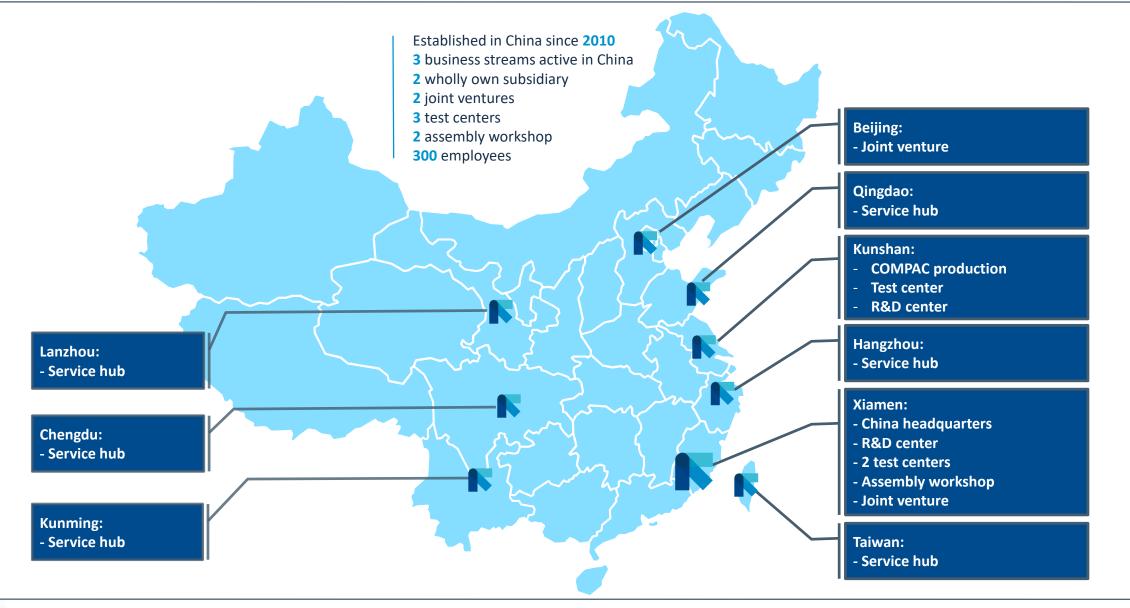
#### Installed base worldwide

REVERSE VENDING						
	Nordic Germany Other Europe	~15,100 ~30,000 ~14,600				
	North America Rest of the world	~16,000 ~7,400				
	TOTAL	~83,100				

#### SORTING SOLUTIONS • . .:-.... . . . RECYCLING MINING FOOD BULK **FOOD LANE** ~4,250 Europe ~790 EMEA ~28 EMEA ~3,250 **EMEA** US / Canada Americas ~865 ~41 Americas ~2,950 ~1,705 Americas Australia ~675 Asia ~820 ~12 Asia APAC ~840 South Africa ~25 ~37 Other Other ~35 **TOTAL**~153 **TOTAL** ~3,335 **TOTAL** ~5,960 **TOTAL** ~6,875

Food Lane includes Compac and BBC

#### Strengthen presence in China





### TOMRA COLLECTION SOLUTIONS



### **DID YOU KNOW?**

- 1 million plastic bottles are bought around the world every minute
- Less than half of all purchased plastic bottles are collected for recycling
- ~ 40bn beverage containers are captured by TOMRA every year...
- …representing only less than 3% of all beverage containers sold in 2018

### Increasing public pressure to reduce waste and littering

Global focus on single use plastics as a global problem and deposit being the solution...





...leads to a market pull from large brand owners and beverage companies

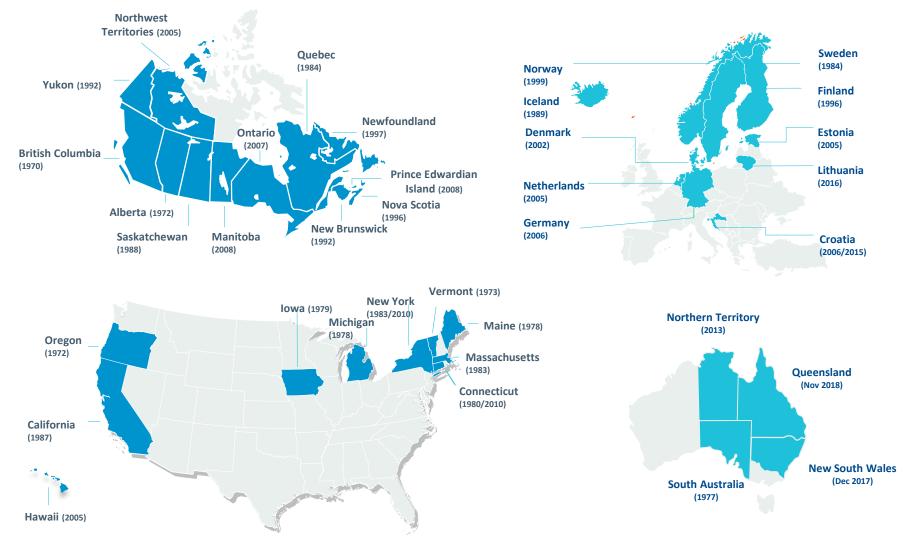




...in addition to a legislative push in EU, and some emerging countries



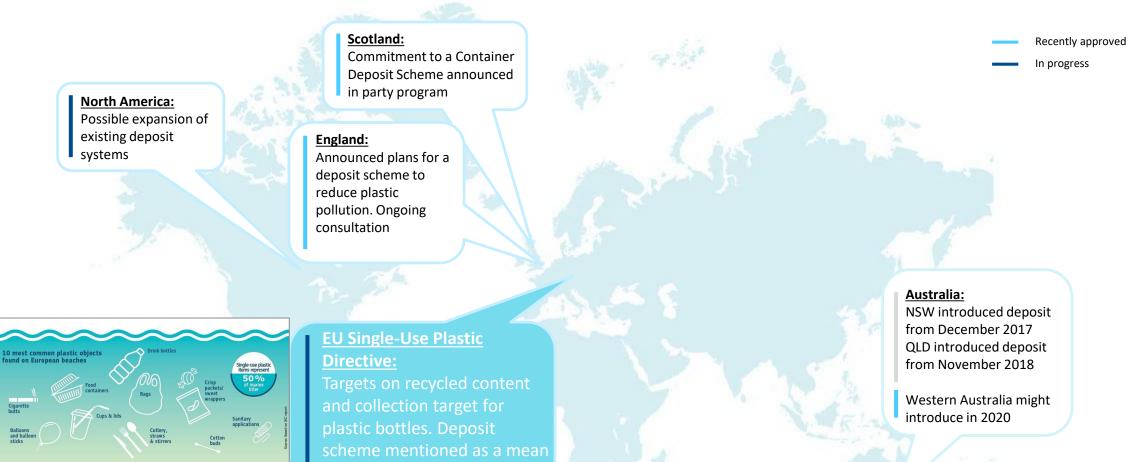
#### An overview of current deposit markets\*



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

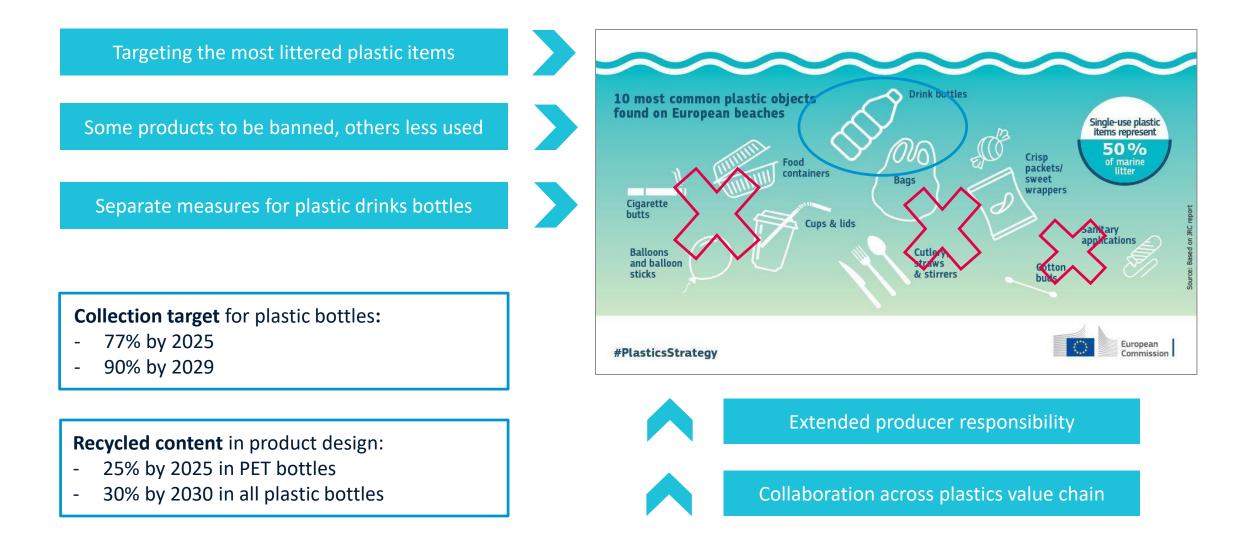
#### Upcoming deposit markets on the move

European Commission



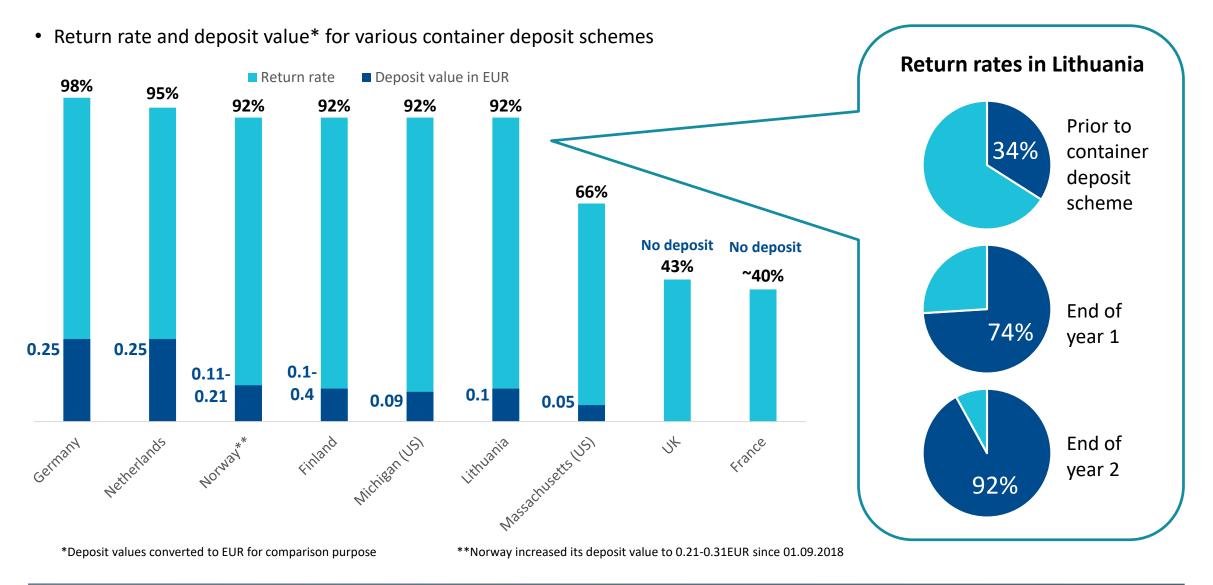
#PlasticsStrategy

#### EU enforcing its leadership role on environment



#### A proven solution to achieve high return rates

TOMRA



Source: Reloop, The Guardian, LeParisien, USAD

### Designing a deposit scheme – lengthy process from idea to law

#### Many stakeholders around the table Illustrative legislation process **Commitment from** Consultation Draft **Final regulation** regulation period government **Beverage** NGOs industry Year 0 Year x Central Technology government providers Many questions to address: 1 Image: A = 1 Image Types of material and product included () \_ Waste Measurement of success and effectiveness \_ Retail management Deposit value industry \_ companies Participants and their role -Financing of the scheme \_ Packaging Deployment of infrastructure and logistics **Consumers** industry Fraud prevention System regulation and monitoring \_

#### TOMRA

#### The benefits of reverse vending in a container deposit scheme



TOMRA

30

#### Elements of a modern reverse vending system



**User communication** 



Sorting & processing





**Recognition system** 



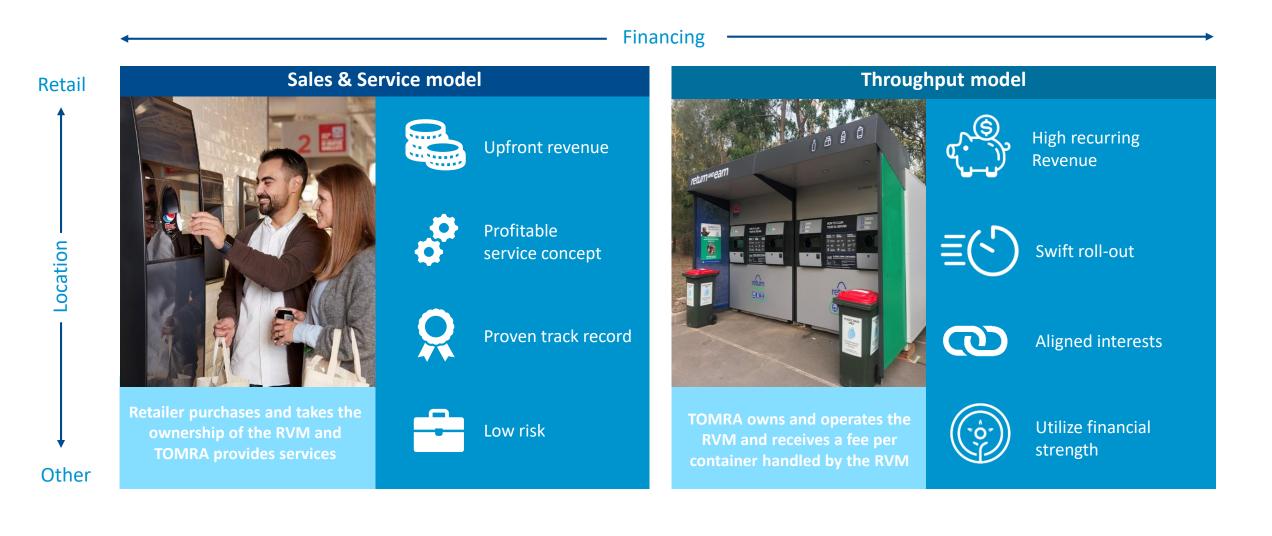
Data administration

### Key market and consumer trends drive structural changes...



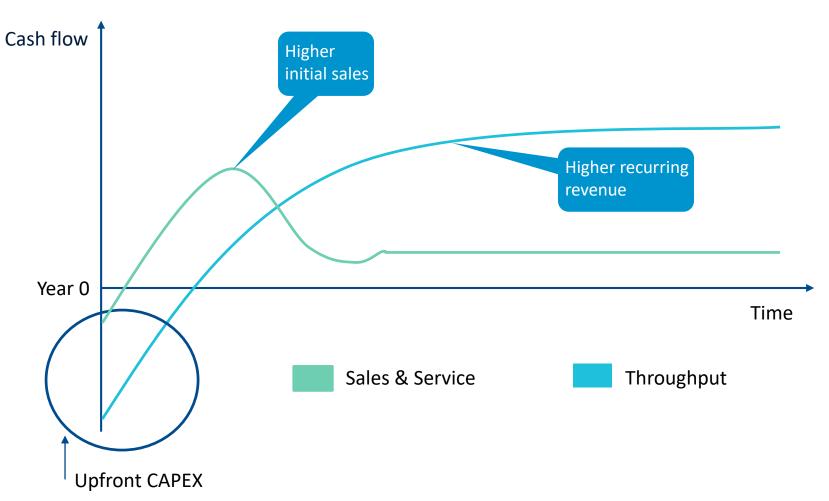
TOMRA

#### ...reflected in shifting business models and stakeholders



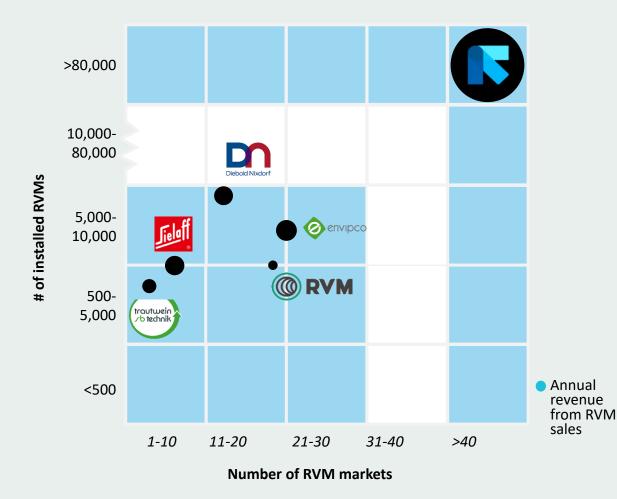
#### Main differences between the two business models

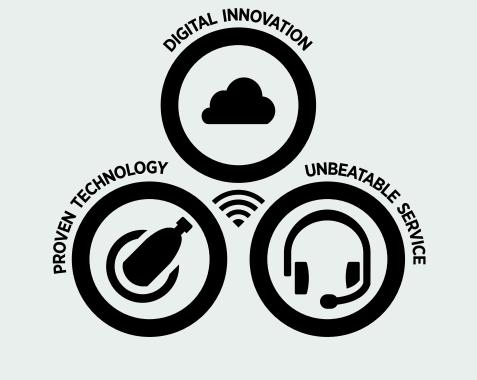
#### Illustrative cash flow profiles per machine



- 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

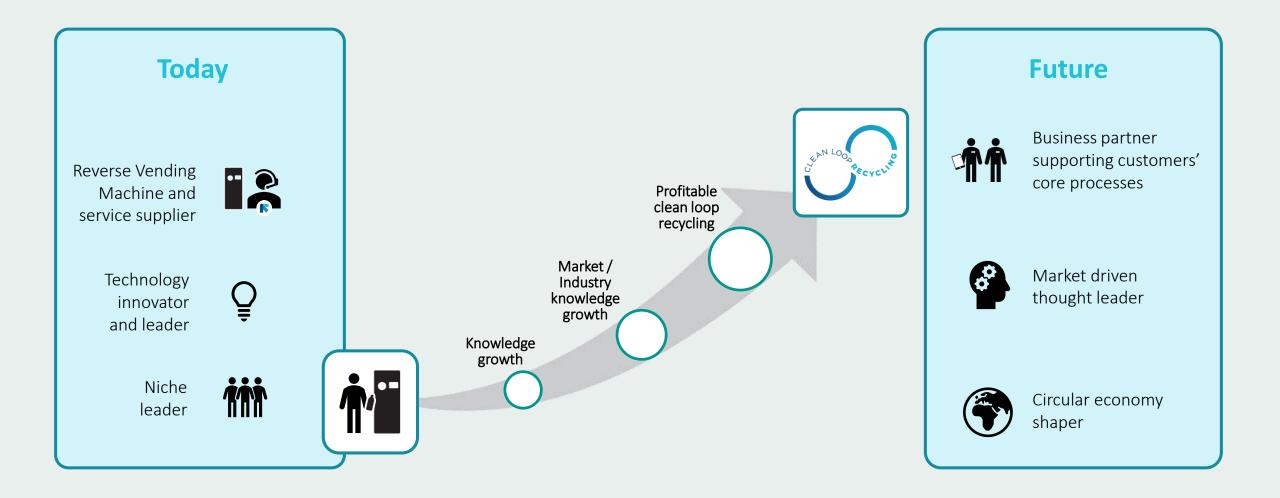




#### The smarter TOMRA system.



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



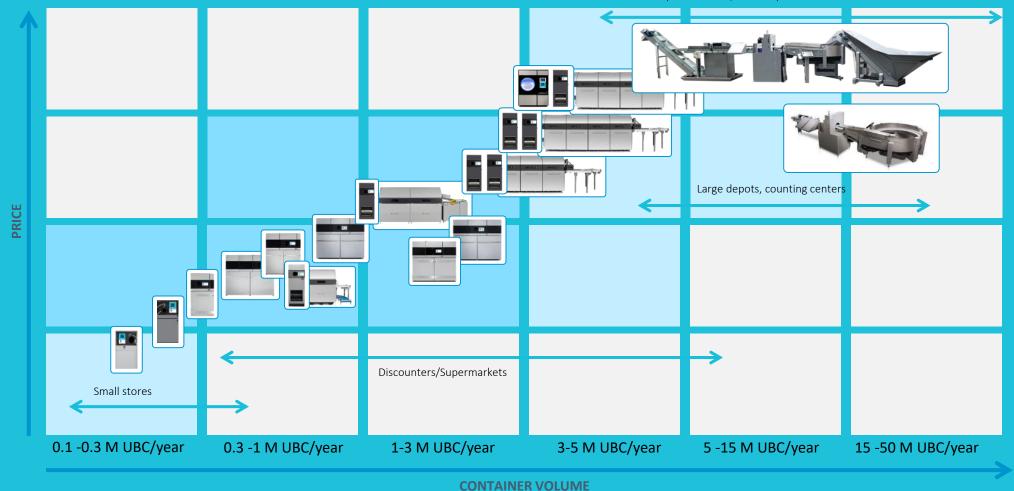
# Strong competitive advantages and growth focus





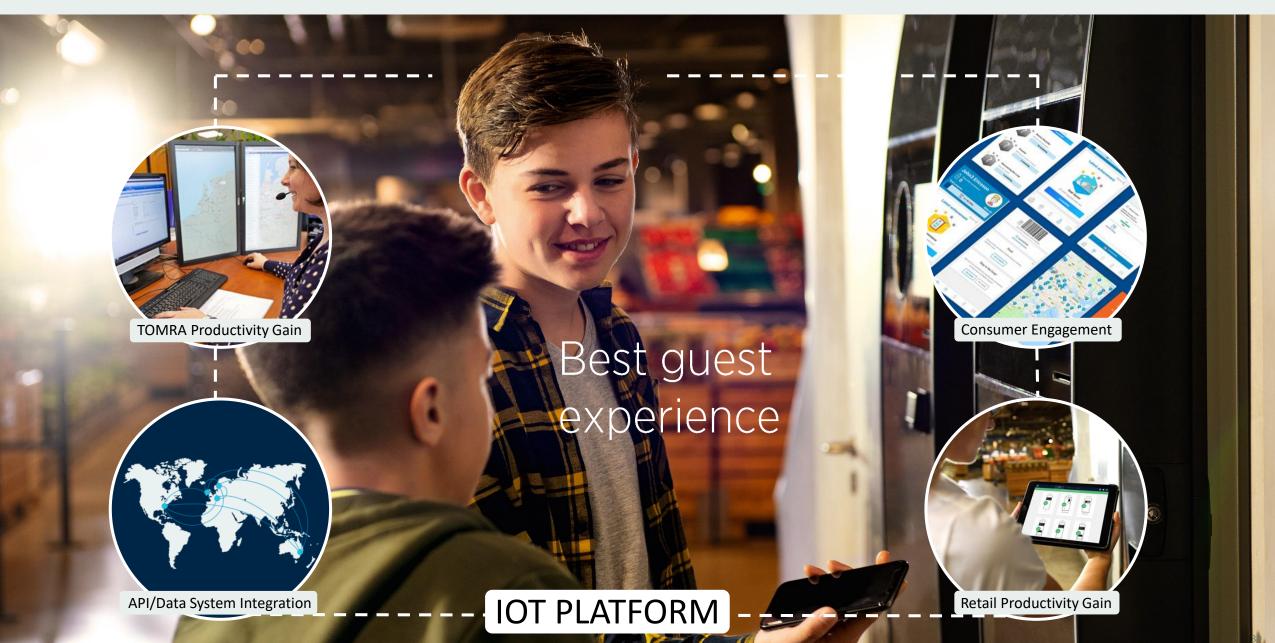


# Flexibility and scalability to enable new business models and new market entry



Redemption centers, small depots etc.

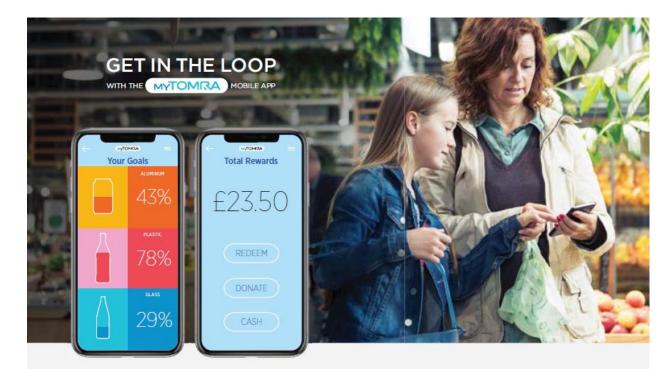
### Strengthen our customers' competitive edge with our superior digital platform



### 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.





# 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

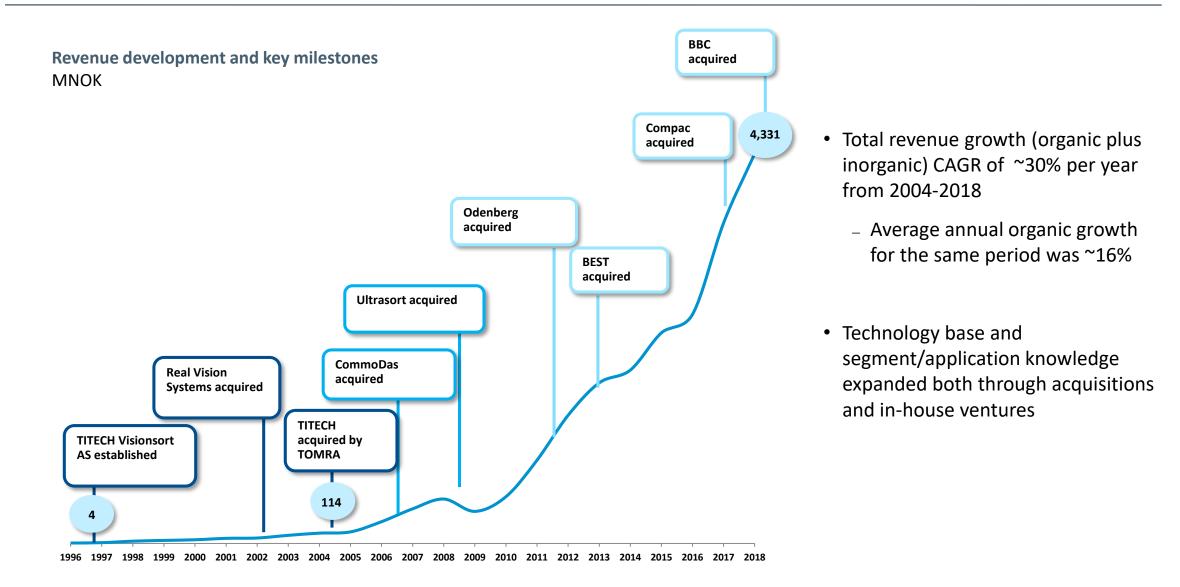
Products and services	FROM	Machine centric	то	BIG DATA INTERNET INTERNET	Holistic solution partner
People	FROM	Basic activities	то		People development
Production and supply chain	FROM	Supplemented by third partie			Scalable with third parties
TOMRA Brand	FROM	RVM Supplie	er <b>TO</b>	o Sphill Color Reveale	B2H Thought leader Business Partner
Process and New market entry	FROM	HQ Regions	то	Global pro Regions	cesses New
Financials	FROM	S&S Sales & Services	то	S&S + TP	Recurring revenues



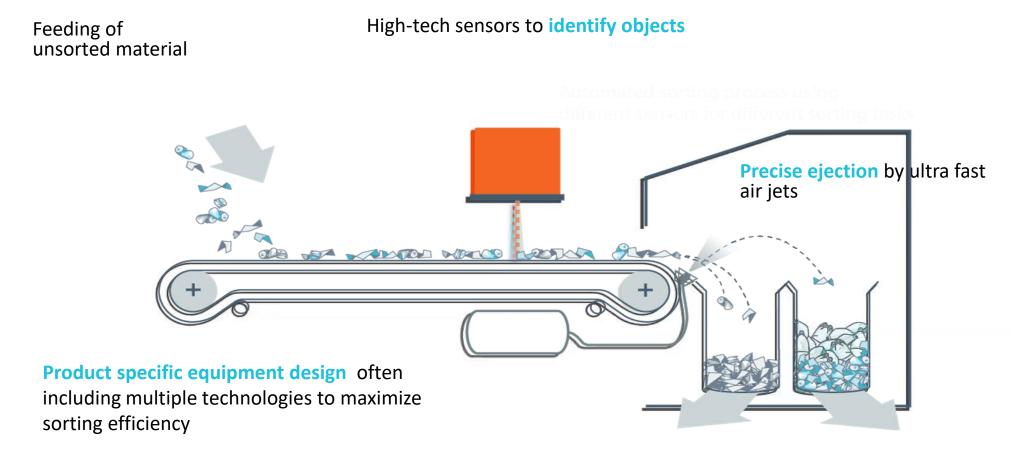
# TOMRA SORTING SOLUTIONS



### Strong revenue growth since inception in 1996

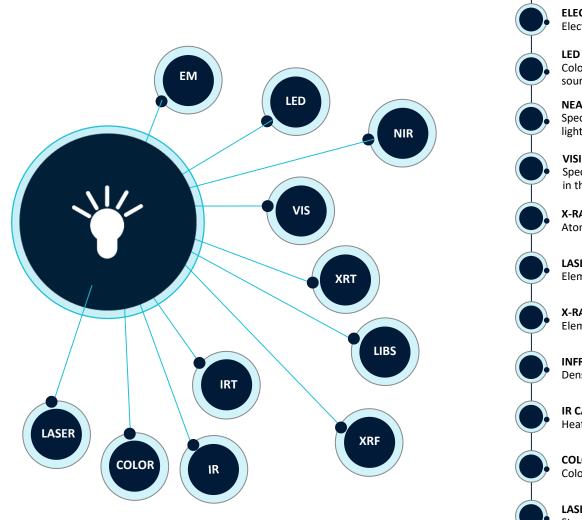


### How does sensor-based separation work?



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



TOMRA

Damage Broken, split and damaged objects are detected and removed



Invisible



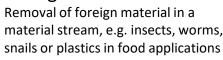
Shape & Size Sort on length, width, diameter, area, broken-piece recognition, ...



#### Biometric Characteristics Sort based on water content and removal of micotoxyn contaminations

#### Foreign Material





#### 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 o

Removal of produce contaminated with aflatoxin

#### **—** .





**OPERATIONAL** 

EFFICIENCY

**REDUCES COSTS** 

SORTING VALUE PROPOSITION

There are three main components to our value proposition

INCREASES

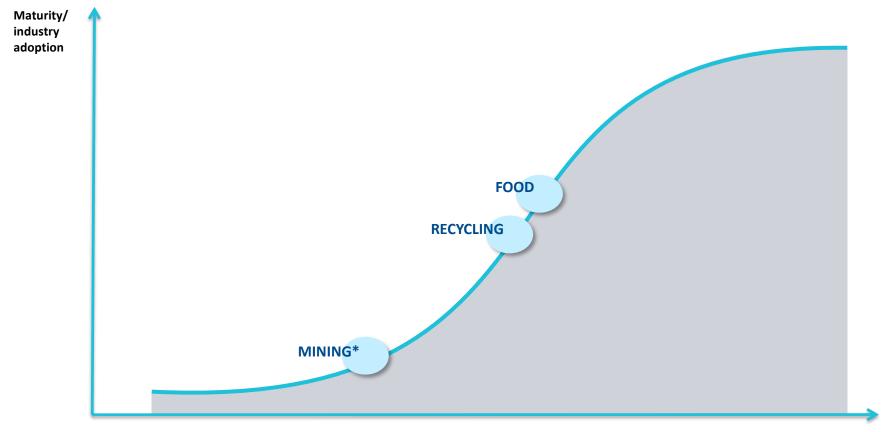
REVENUE

**INCREASED PURITY** 

**OF MATERIAL** 

STREAM

# Adoption of sensor-based sorting at different maturity levels



Time

\* 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



#### TITECH NIR + ODENBERG 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**

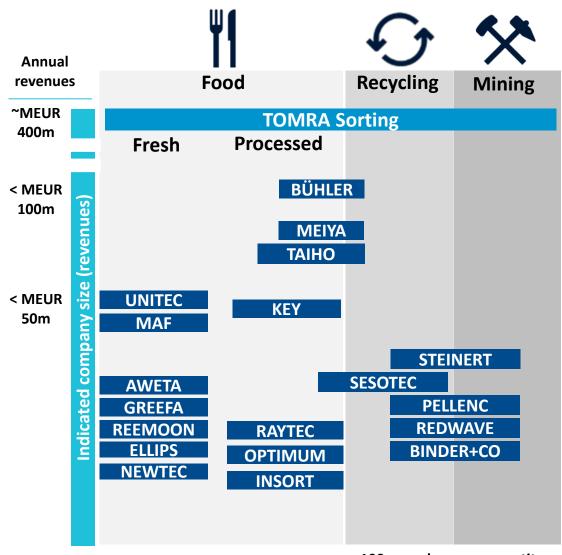
#### Nimbus BSI

- 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

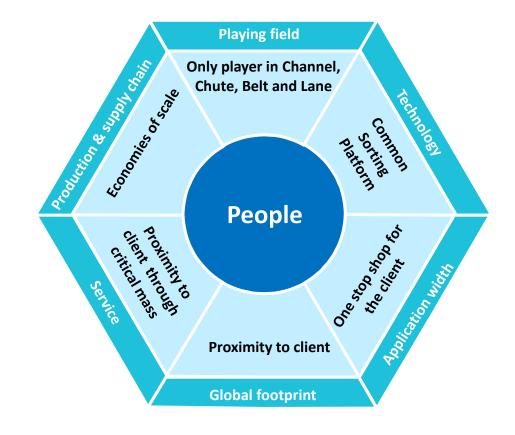
TOMRA

# The benefits of being TOMRA sorting



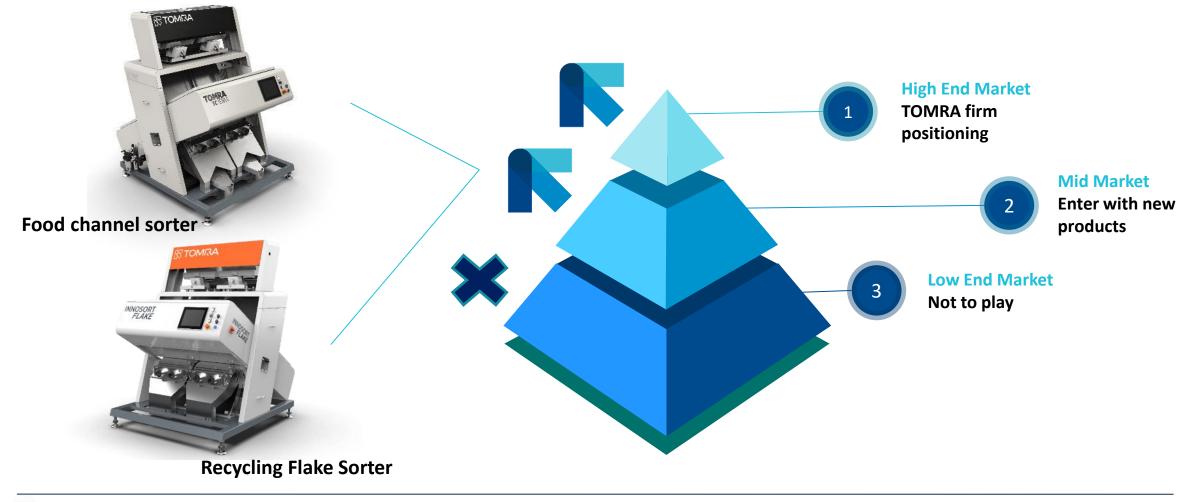
+100 more known competitors

Our position: A solid platform for further growth



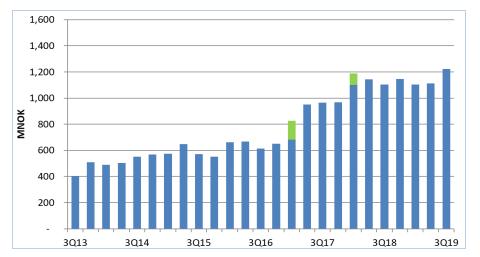
# Entering new markets through Mid-market strategy

#### Creating competitive offering to fast growing mid-market

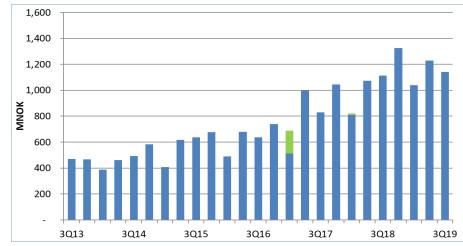


# Development in order intake and order backlog

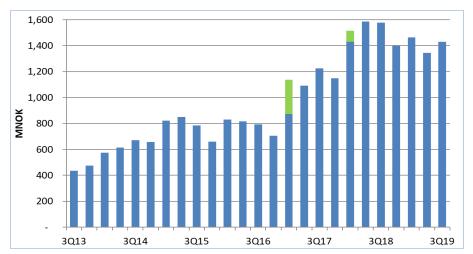
#### Order intake



#### Revenues



#### Order backlog



- TOMRA Sorting Solutions (TSS):
  - Revenues of 1,140 MNOK, up from 1,112 MNOK last year
  - Order intake of 1,224 MNOK in the quarter, compared to 1,105 MNOK last year
  - Order backlog of 1,430 MNOK by the end of third quarter, compared to 1,579 MNOK by the end of third quarter 2018
- Estimated backlog conversion ratio in 4Q19: 85-90%

Organic Inorganic

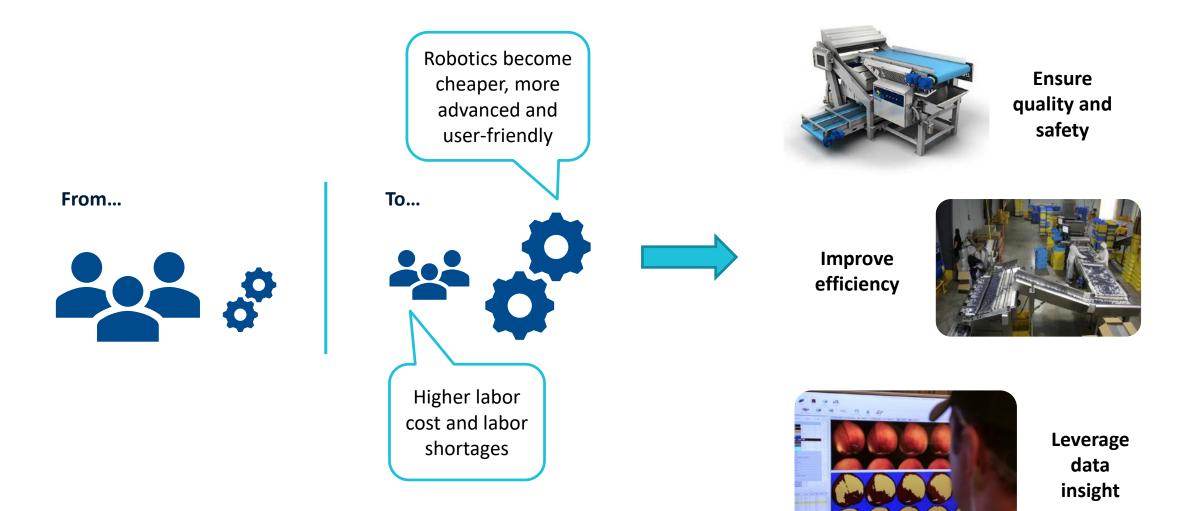


# FOOD FOR THOUGHT

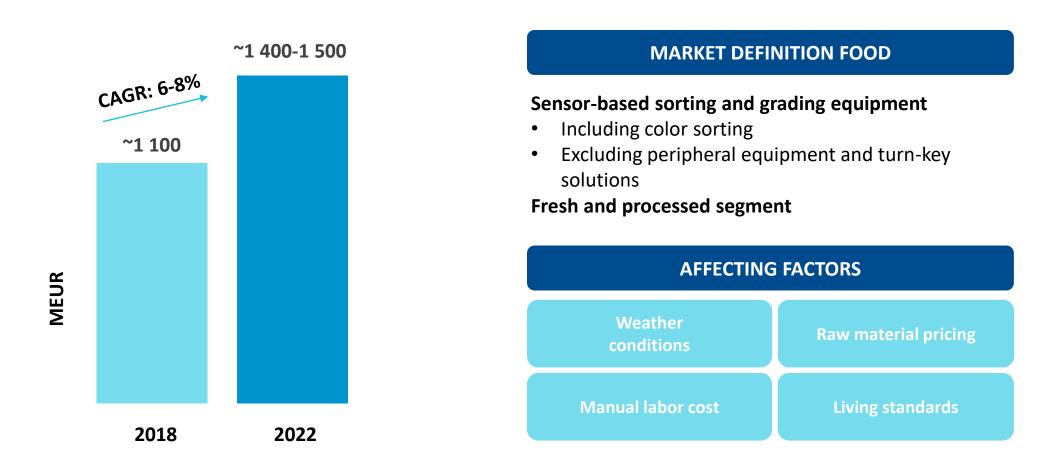
- By 2050 we will be close to **10bn** people
- We will need more food in the next 40 years than all the harvests in history combined
- But farmland is constant at best
- The food you eat will have travelled more than you have



### Automation continues on a strong growth trajectory



# Market growth expectations – food



# Three ways of sorting within the Food segment

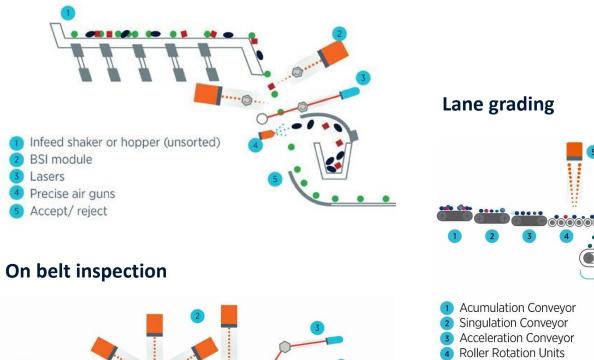
Infeed belt (unsorted)

Cameras
 Lasers
 Precise air guns
 Accept/ reject

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** 

#### TOMRA

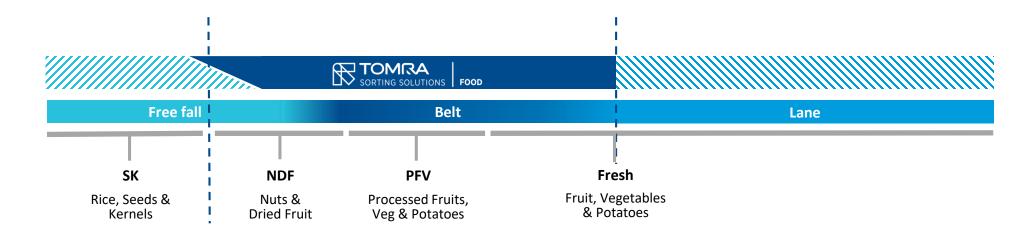
\*Estimated total revenue within the food sorting segment 55

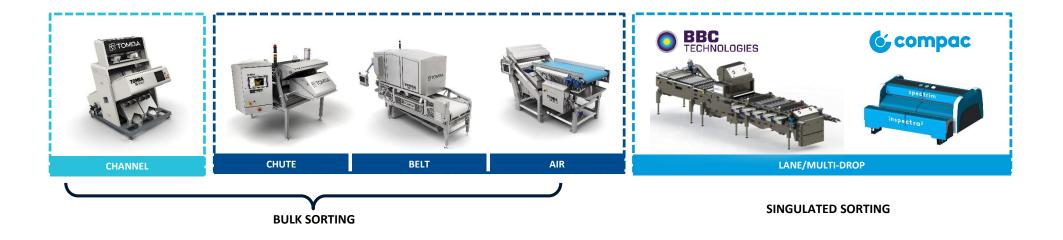
5 Pulsed LEDs and Cameras

6 Air Jets

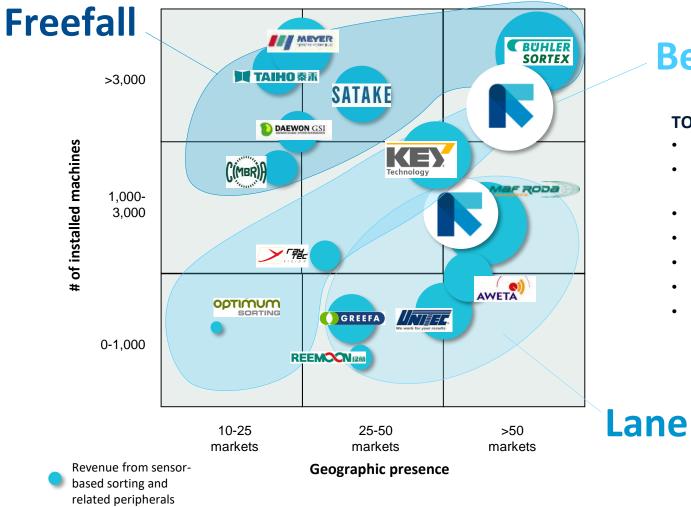
7 Specified Grade

### TOMRA has established the broadest footprint within food sorting





### Food competitive landscape



### Belt

#### **TOMRA** competitive positioning

- Size (revenues)
- Widest range of applications (150+)
- Broadest technology base
- Geographic reach (~80 countries)
- Market share in targeted segments
- Bulk Sorting market share\*: 25%
- Lane Sorting market share\*: 25%

### Food: applications and sensor technology

#### POTATOES



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

LASER, CAMERA, BSI, PULSED LED

FRUIT



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

LASER, CAMERA, BSI, PULSED LED

# VEGETABLES

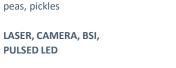
Beans, beets, broccoli, carrots, corn, cucumbers, industrial spinach, IQF vegetables, jalapenos/peppers, onions,

LASER, CAMERA, BSI, PULSED LED

**FRESH CUT** 

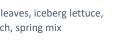


Baby leaves, iceberg lettuce, spinach, spring mix





#### LASER, CAMERA





NUTS

LASER, CAMERA, X-RAY

**SEAFOOD** 





macadamias, peanuts, pecans, pistachios, walnuts

Mussels, scallops, seaweed,

LASER, CAMERA, BSI, X-RAY,

shrimps, tuna, pet food

INTERACTANCE

SPECTROSCOPY

**DRIED FRUIT** 



Apricots, cranberries, dates, figs, prunes, raisins

LASER, CAMERA, BSI, X-RAY

MEAT

#### **SEEDS & GRAINS**



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

LASER, CAMERA, BSI, X-RAY

#### **GUMMIES**



LASER, CAMERA

#### **TOBACCO**



LASER, CAMERA

Bacon bits, beef, chicken breasts, hot dogs, IQF meat,

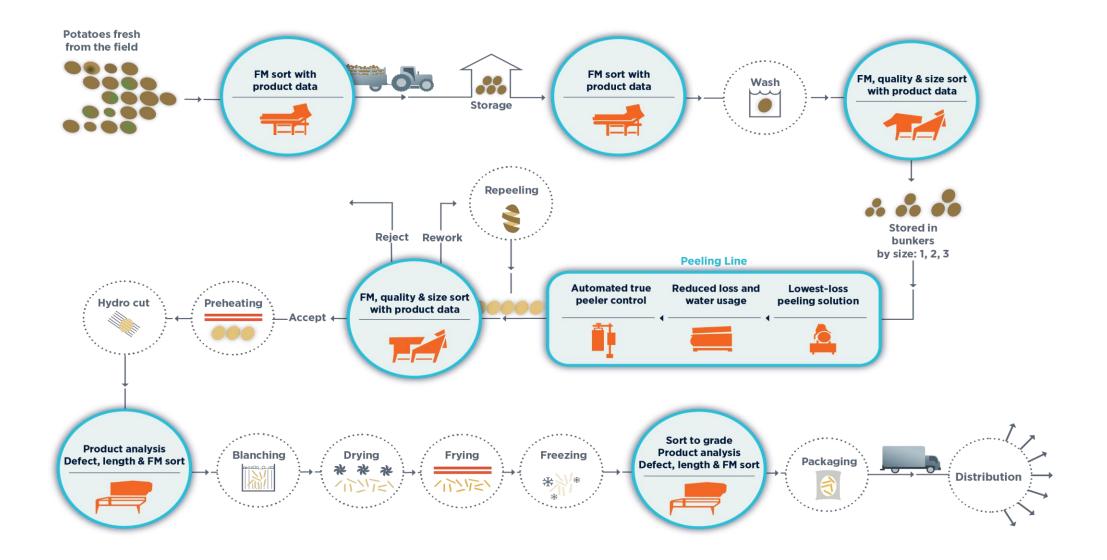
pet food LASER, CAMERA, BSI, INTERACTANCE

pork, pork rind, sausages,

SPECTROSCOPY



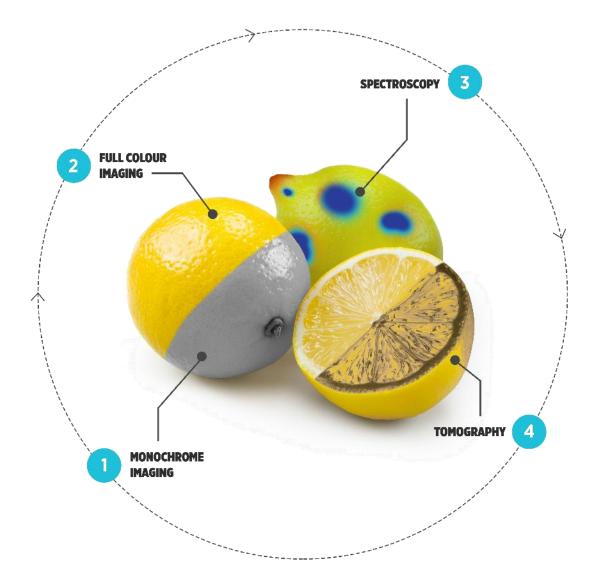
### Creating value in various parts of the food process



### Our food sorting customers



### New sensor technologies will unlock new opportunities...



... to measuring **Internal defects** Taste Shelf life / Freshness **Food hazards** 

• From measuring visual appearance...

# **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

SORTING SOLUTIONS RECYCLING

# The circular economy drives a legislative push...

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



"A common EU target for recycling 70% of packaging waste by 2030"

The Strategy also highlights the need for specific measures, possibly a legislative instrument, to reduce the impact of single-use plastics, particularly in our seas and oceans  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

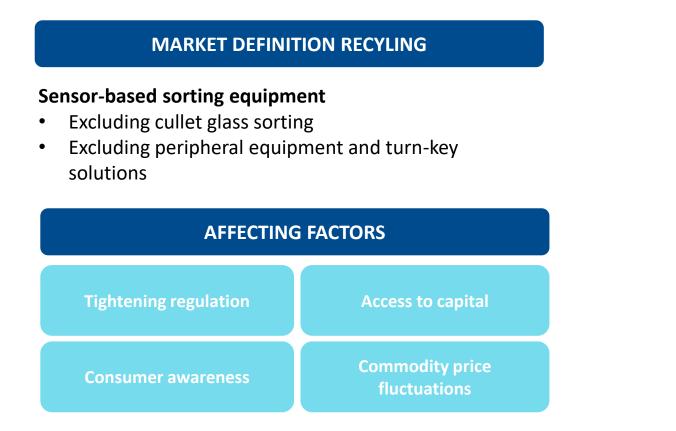
			Description	Targets and measures		
	Waste Framework Directive		• Rules on how waste should be managed in the EU. It provides general principles for doing so, such as the Waste Hierarchy, Polluter Pays Principle and Extended Producer Responsibility.	<ul> <li>A common EU target for recycling 60% of municipal waste by 2030</li> <li>A common EU target for recycling 70% of all packaging waste by 2030</li> </ul>		
JY PACKAGI	Packaging V Directiv Waste Elect and Electro Equipme (WEEE) Directiv End of Li Vehicle	Packaging and Packaging Waste Directive	<ul> <li>Rules on the production, marketing, use, recycling and refilling of containers of liquids for human consumption and on the disposal of used containers</li> <li>2015 revision includes lightweight plastic carrier bags</li> </ul>	<ul> <li>A common EU target for recycling 55% of all plastics by 2030</li> <li>A binding landfill target to reduce landfill to maximum of 10% of</li> </ul>		
2018 CIRCULAR ECONOMY PACKAGE		Waste Electrical and Electronic Equipment (WEEE) Directive	<ul> <li>Collection, recycling and recovery targets for all types of electrical goods</li> <li>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</li> </ul>	<ul> <li>municipal waste by 2030</li> <li>Separate collection of textiles and hazardous waste by 2025</li> <li>Simplified and improved definitions</li> </ul>		
		Landfill Directive	<ul> <li>The objective of the Directive is to prevent or reduce as far as possible negative effects on the environment from the landfilling of waste</li> <li>In particular: impact on surface water, groundwater, soil, air, and on human health by introducing stringent technical requirements for waste and landfills.</li> </ul>	<ul> <li>and harmonized calculation methods for recycling rates</li> <li>Concrete measures to promote re- use and stimulate industrial symbiosis</li> </ul>		
		End of Life Vehicle (ELV) Directive	<ul> <li>Aims at reduction of waste arising from end-of-life vehicles</li> <li>The scope of the directive is limited to passenger cars and light commercial vehicles</li> </ul>	• Economic incentives for producers to put greener products on the market and support recovery and recycling schemes		

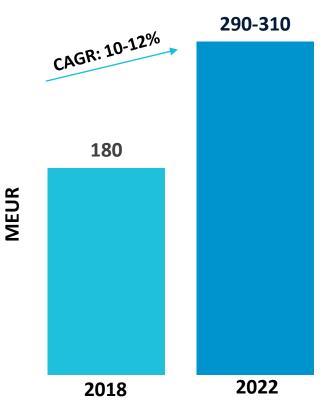
...and a market pull



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

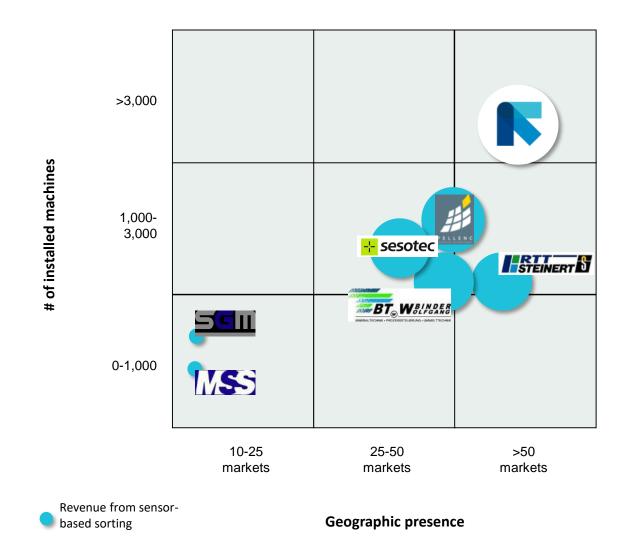
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66

# Recycling: competitive landscape



#### **TOMRA** competitive positioning

- Largest installed base
- Highest revenues
- Broadest technology platform
- Highest number of applications and markets served
- Leading brand
- Market share: 55-65%

# 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

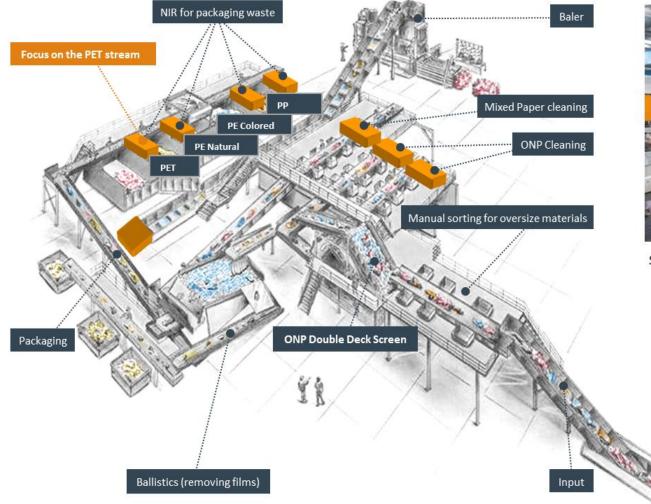
#### PAPER



Deinking, cardboard, carton

NIR, VIS, EM

### Automation with TOMRA Sorting units



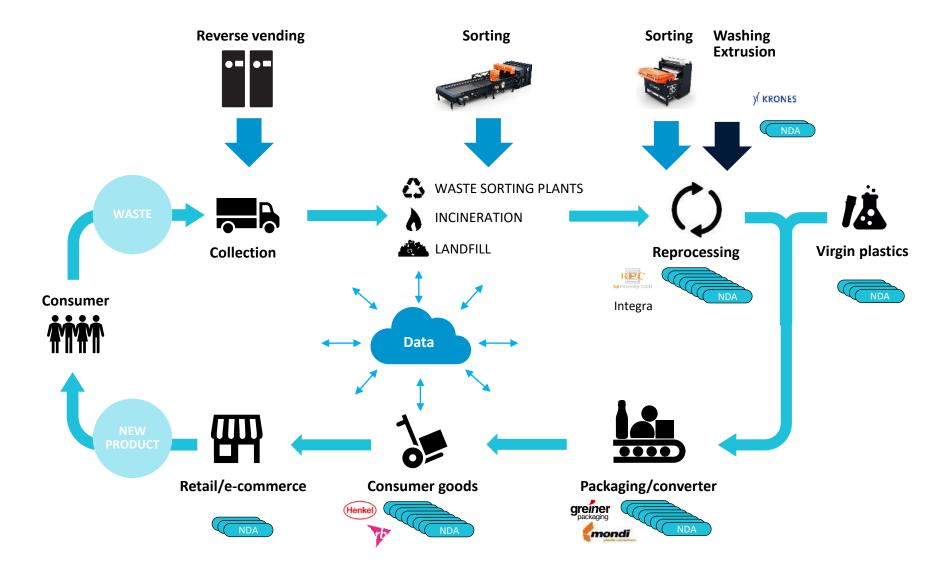


Sorting of Municipal Solid Waste, Cyprus

# 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**

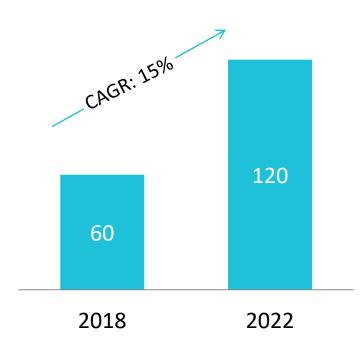
- Mining is an old industry. But chances are that it will it look very different in 10 years time
- Energy intensity and water stress are major drivers...
- …for disruptive technology forces to reshape the industry
- Commodity prices and capex impact the investment sentiment

SORTING SOLUTIONS

### Mining: market growth expectations

#### Total annual market size

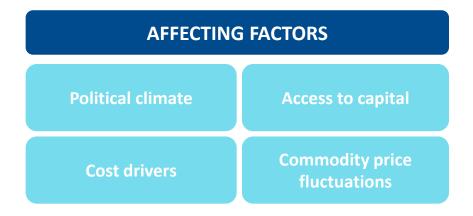
#### **EUR** million



#### 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, MgO<sub>2</sub>-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

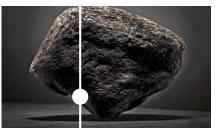
### FUEL



Coal waste dumps

XRT

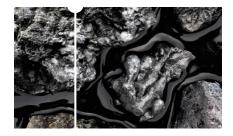
#### FERROUS METALS



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

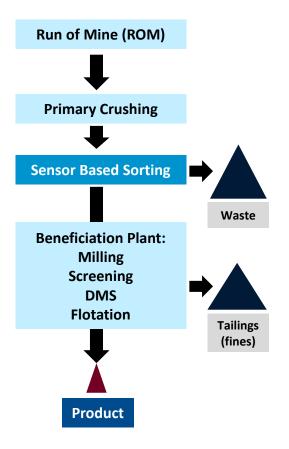
# Industrial minerals Run of Mine (ROM) **Primary Crushing** Secondary Crushing **Sensor Based Sorting** Waste Product

Mining process:



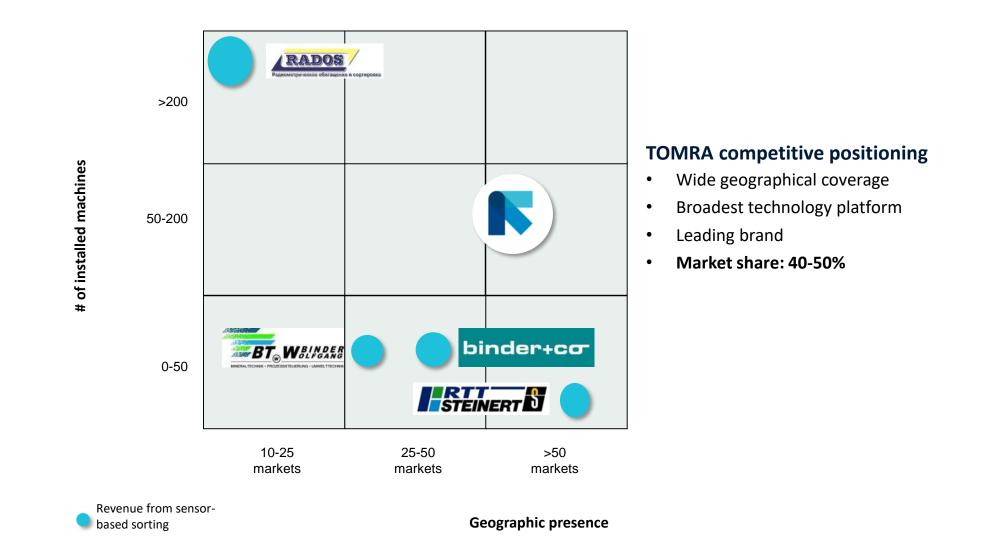
- 15% to 50% of the ROM can be rejected in an early stage of the process (application dependent)
- These low grade waste rocks don't need to be transported, crushed, grinded or further treated

## Mining process: Metal mining



### **Potential new segment**

### **Current segment**

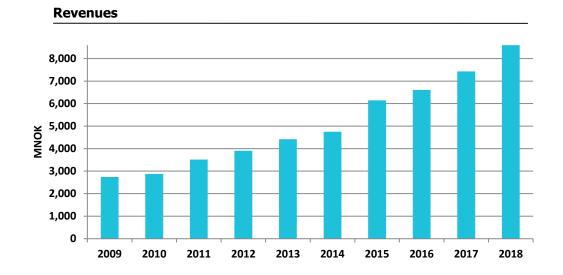




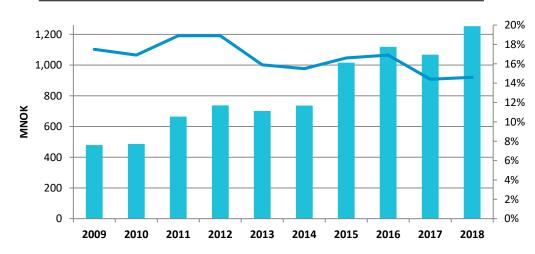
## HISTORICAL GROUP FINANCIALS AND TARGETS



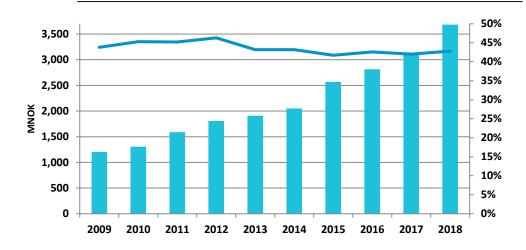
## Group financials development – solid track record



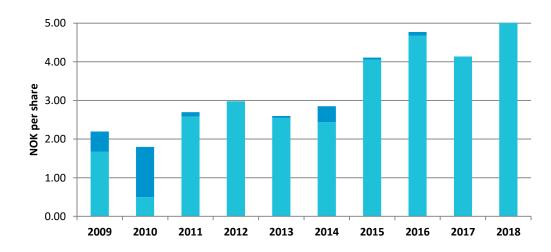
**EBITA** and margin



Gross contribution and margin

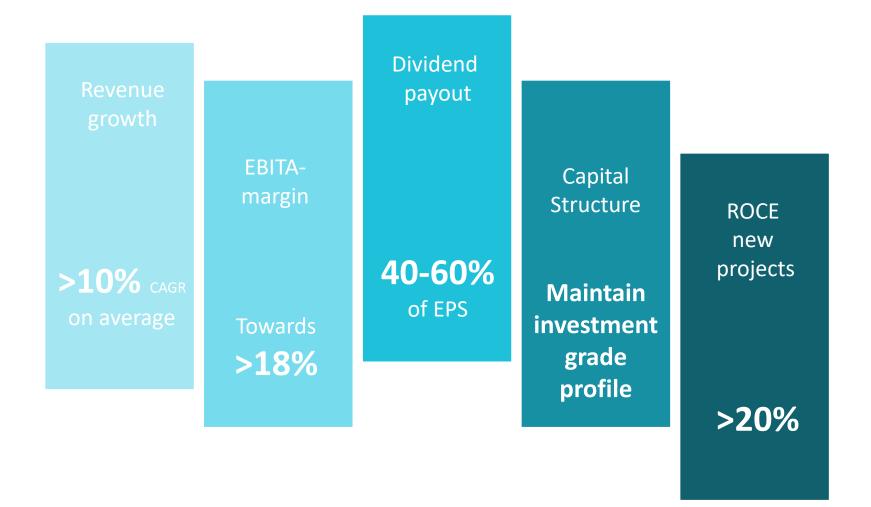


#### Earnings per share



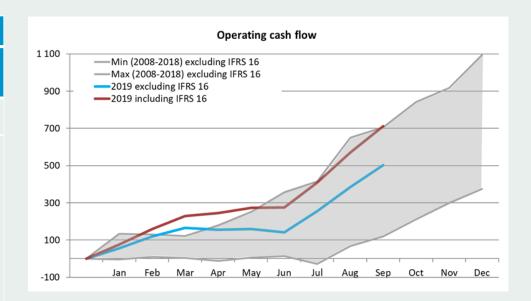
TOMRA

## Group financial targets 2018-2023 – our ambitions affirmed



## Financial highlights | Balance sheet and cash flow

	With IFRS 16	Without IFRS 16		
Amounts in NOK million	30 Sept 2019	30 Sept 2019	30 Sept 2018	31 Dec 2018
ASSETS	11,284	10,211	9,117	9,595
Intangible non-current assets	3,800	3,787	3,653	3,821
Tangible non-current assets	2,409	1,350	1,129	1,276
Financial non-current assets	367	367	327	340
Inventory	1,663	1,663	1,400	1,447
Receivables	2,676	2,676	2,322	2,314
Cash and cash equivalents	368	368	286	397
LIABILITIES AND EQUITY	11,284	10,211	9,117	9,595
Equity	4,973	5,015	4,577	5,077
Minority interest	174	174	156	159
Interest-bearing liabilities	3,123	2,008	1,487	1,524
Non interest-bearing liabilities	3,014	3,014	2,897	2,835



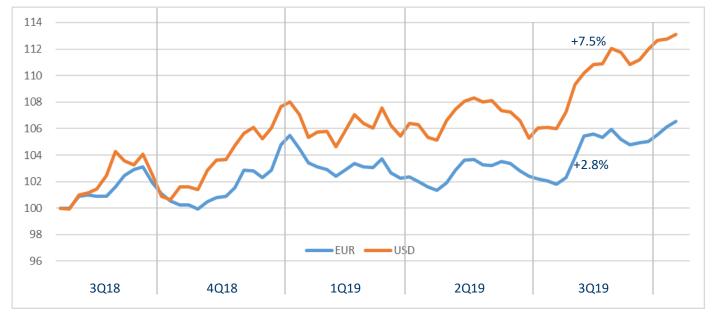
## Ordinary cashflow from operations

- 438 MNOK in third quarter (433 MNOK in third quarter 2018)
  - Positive effect from IFRS 16 of 68 MNOK
- 712 MNOK YTD 9 months (679 MNOK YTD 9 months in 2018)
  - Positive effect from IFRS 16 of 200 MNOK

### Solidity

- 46% equity (50% ex. IFRS 16)
- NIBD/EBITDA = 1.0x (Rolling 12 months), ex IFRS 16 effects

## Currency risk and hedging policy



### **Revenues and expenses per currency:**

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

## Assets and liabilities per currency:

	EUR*	USD	NOK	OTHER**	TOTAL
Assets	50 %	15 %	15 %	20 %	100 %
Liabilities	60 %	10 %	20 %	10 %	100 %
* EUR includes DKK	** Most impo	ortant: AUD, NZD, RMB,	CAD, SEK, GBP and JPY	NOTE: Estimated and rounded figure	

#### EUR includes DKK

\*Average rate 3Q19 vs 3Q18

## 10% change in NOK towards other currencies will impact:

Positive impact		Revenues	Expenses	EBITA
from stronger USD vs EUR	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**

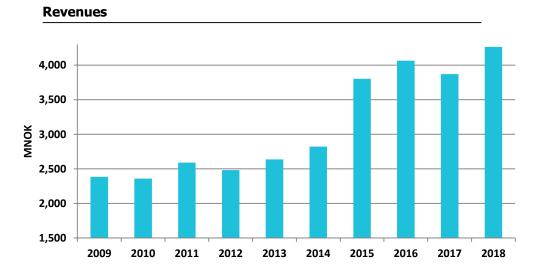
## CASHFLOW AND P/L

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

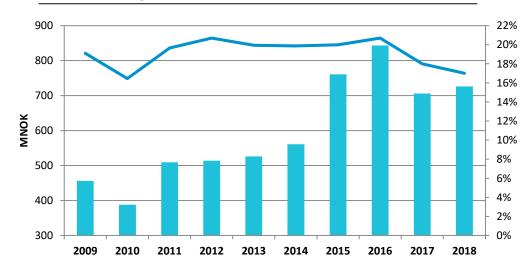
## B/S

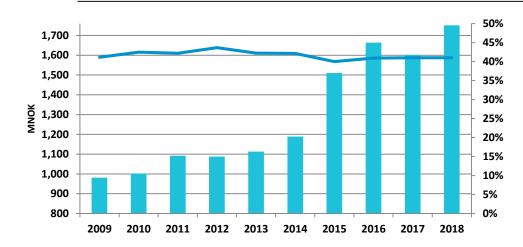
TOMRA only hedge B/S item where exchange rate • fluctuations could have P/L impact. Gains and losses on B/S hedging is recorded in accordance with IAS 21 and will normally not have P/L impact

## Collection solutions – segment financials



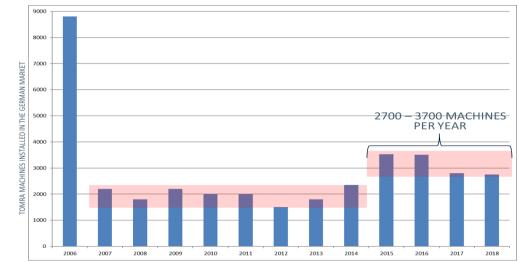
**EBITA** and margin



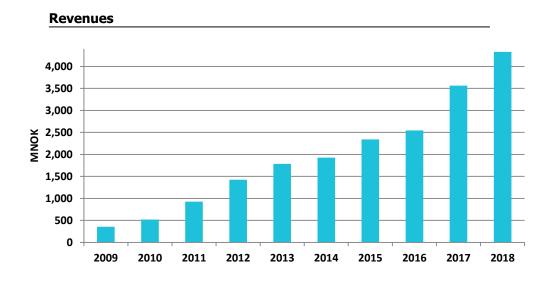


#### Gross contribution and margin

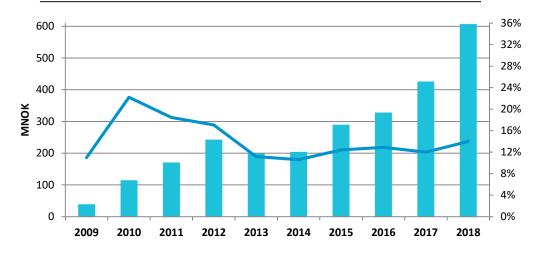
### **TOMRA** machines installed in the German market



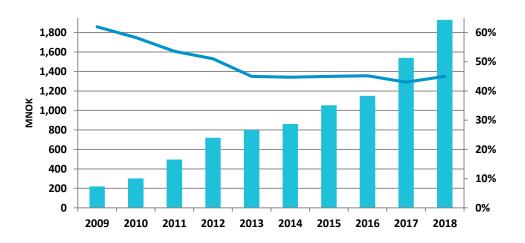
## Sorting solutions – segment financials



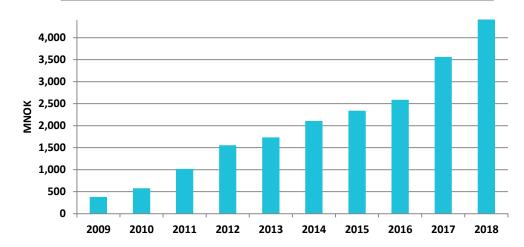
**EBITA** and margin







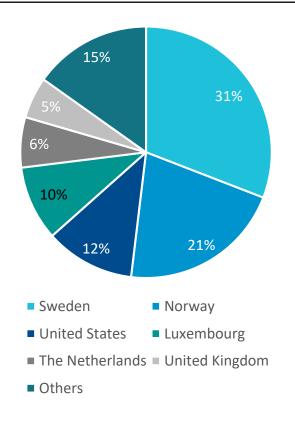
#### **Order Intake**



## Shareholder structure

Top 10 shareholders as of 01 October 2019						
1	Investment AB Latour	39 000 000	26,3 %			
2	Folketrygdfondet	11 642 913	7,9 %			
3	The Bank of New York Mellon	7 863 046	5,3 %	(NOM)		
4	Clearstream Banking	5 584 324	3.8 %	(NOM)		
5	State Street Bank	4 788 326	3.2 %	(NOM)		
6	JPMorgan Chase Bank	1 823 316	1.2 %	(NOM)		
7	JPMorgan Chase Bank	1 804 031	1.2 %	(NOM)		
8	J.P. Morgan Bank Luxembourg S.A.	1 705 002	1.1 %	(NOM)		
9	DANSKE INVEST NORSKE INSTIT. II.	1 598 542	1.1 %			
10	<b>BNP Paribas Securities Services</b>	1 262 196	0.9 %	(NOM)		
	Sum Top 10	77 071 696	52.1%			
	Other shareholders	70 948 382	47.9%			
	TOTAL (9,087 shareholders)	148 020 078	100.0%			

Shareholders by country



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