

Disclaimer

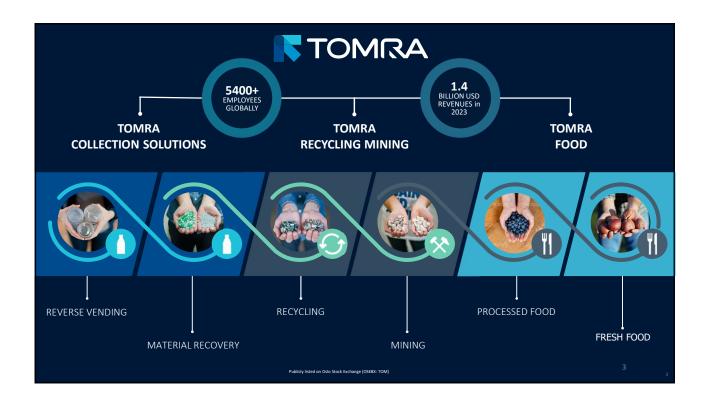


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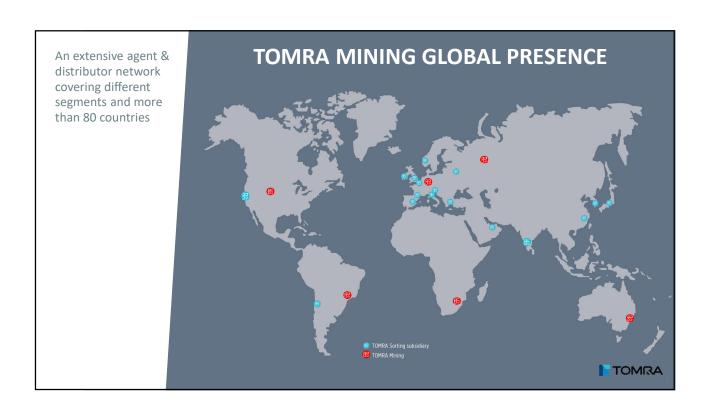
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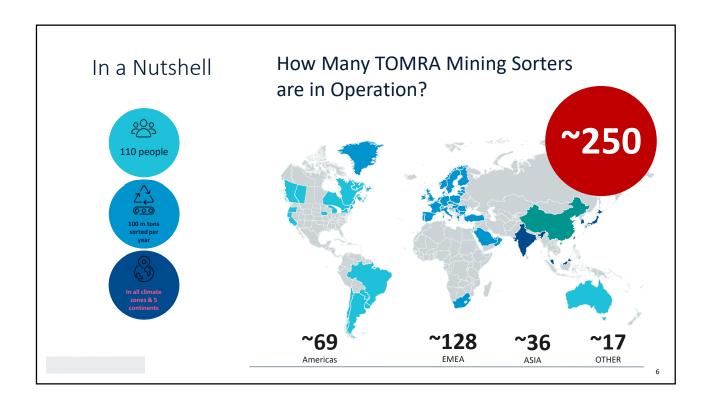
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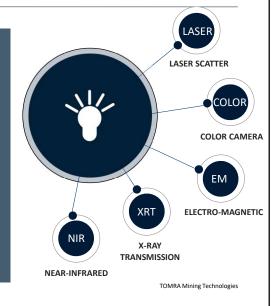






WHAT IS SENSOR-BASED ORE SORTING?

- Sensor-based sorting is a coarse particle separation technology applied in mining for the dry separation of bulk materials.
- Particles are:
 Individually detected by a sensor technique,
 Individually ejected by an amplified pneumatic process
- The technical feasibility depends largely on the liberation characteristics of the particles. When physical liberation is present, sorting work as a separation technique.



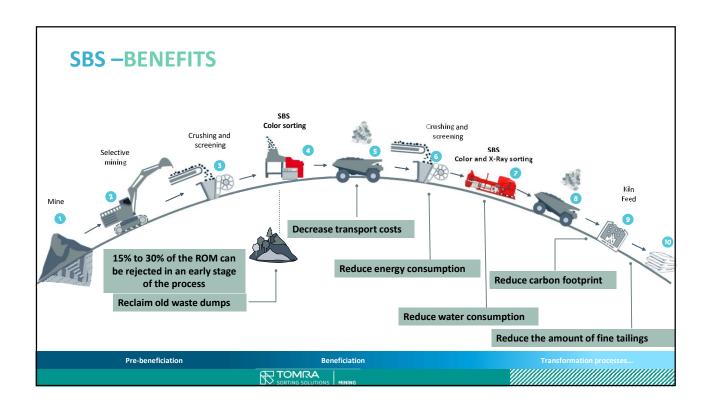
TOMRA

Benefits of automated sorting

LOWER OPERATIONAL COST

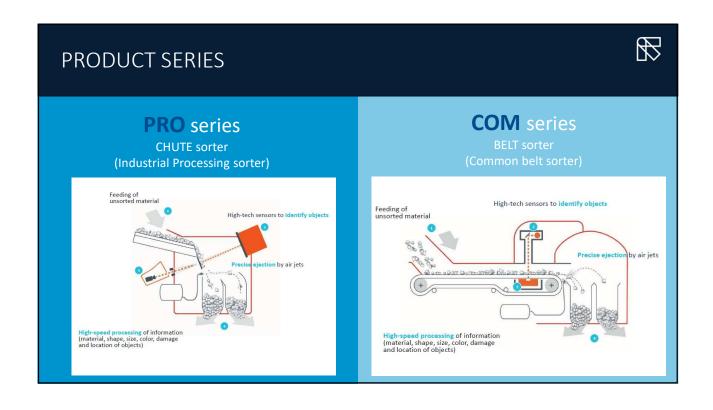
LOWER THROUGHPUT

LOW

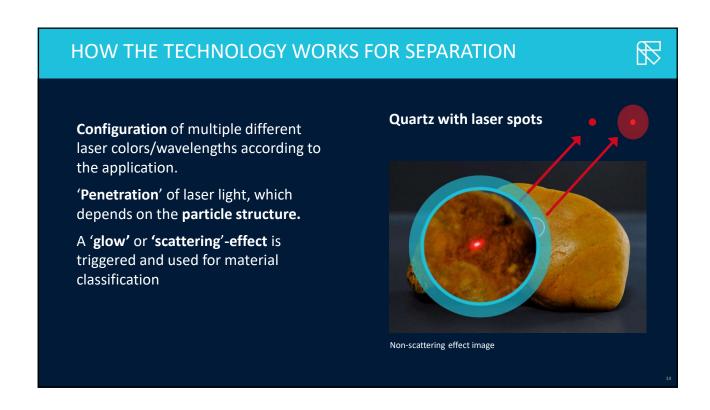


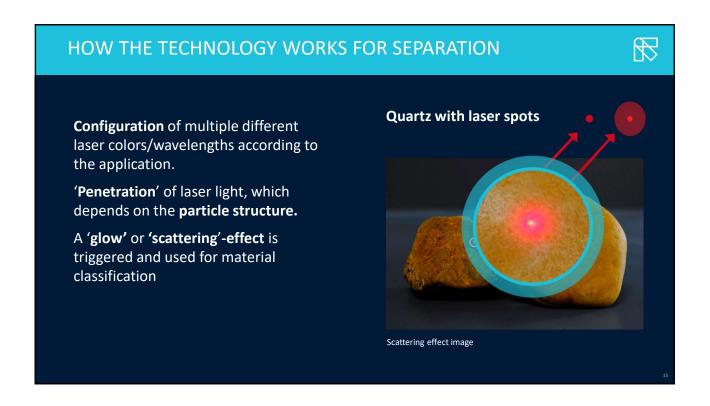




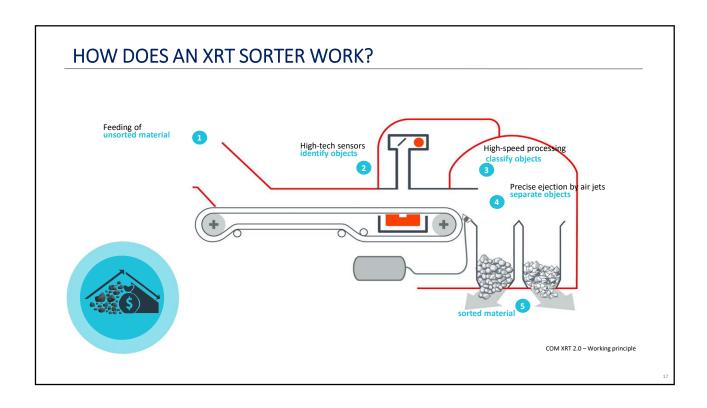


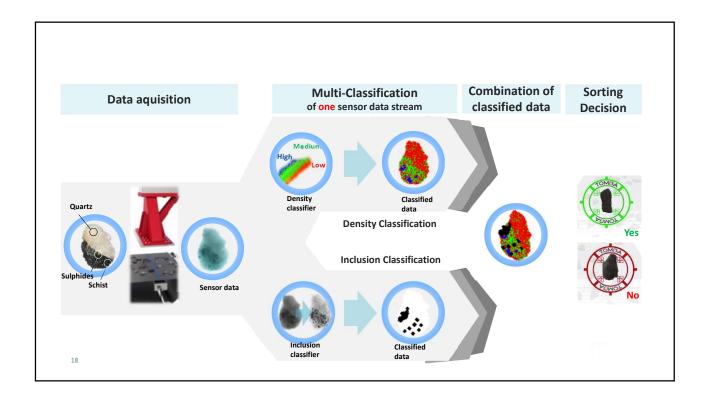




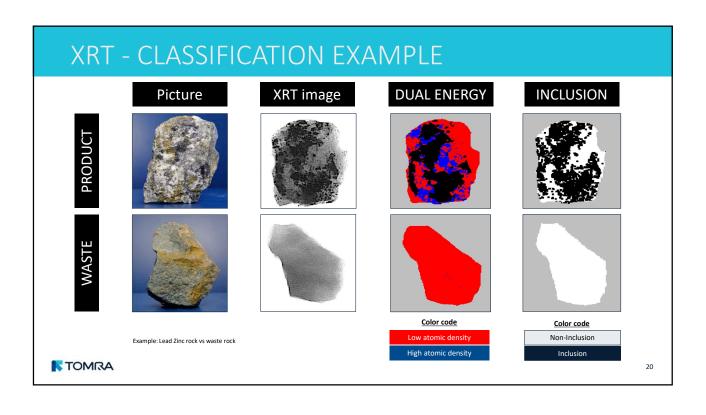


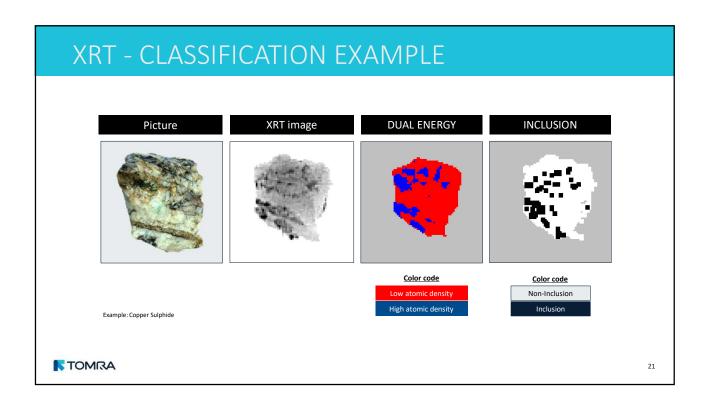


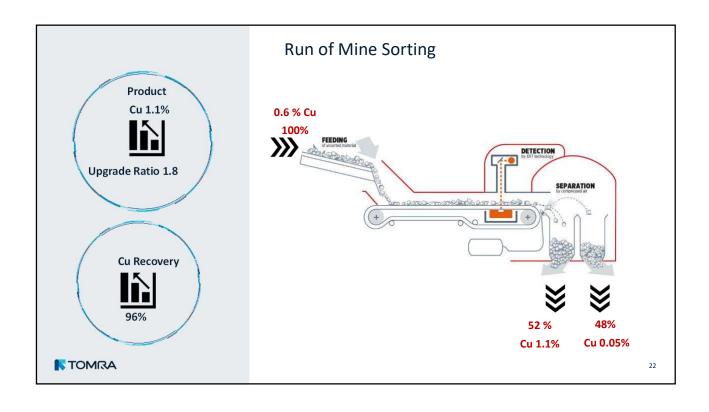












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Copper ORE – dump material, Average Cu grade: 0.2%

	Grain size [mm]	Recovery [%]	Upgrade factor	Waste pull [mass %]
Case Study 1	10-25	90.2	1.9	53.8
	25-50	93.2	2.8	77.1
Case Study 2	10-25	89.5	4.8	73.9
	25-50	95.5	2.3	70.3

INTOMIRA

Definitions Used since introducing TOMRA sorters Ability of a machine to mimic human thought and decision-making to perform tasks, traditionally required human intelligence Artificial Intelligence (AI) Used for more than 10 years Application of AI that allows a system to 90 automatically recognizes patterns, learns from data and improves without being Machine Learning (ML) programmed New feature $\mathsf{OBTAIN}^\mathsf{TM}$ Deep Application of ML that uses artificial neural networks to analyze data and solve complex Learning problems (DL) **INTOMIRA**

