

September 21, 2022 – 13:30 – Impulsvortrag

Lebenslauf für jedes Kunststoffprodukt

Dr. André Bernard | matriq AG | St. Gallen | Switzerland | matriq.ch



The unique watermark for plastics!

what it enables



traceability

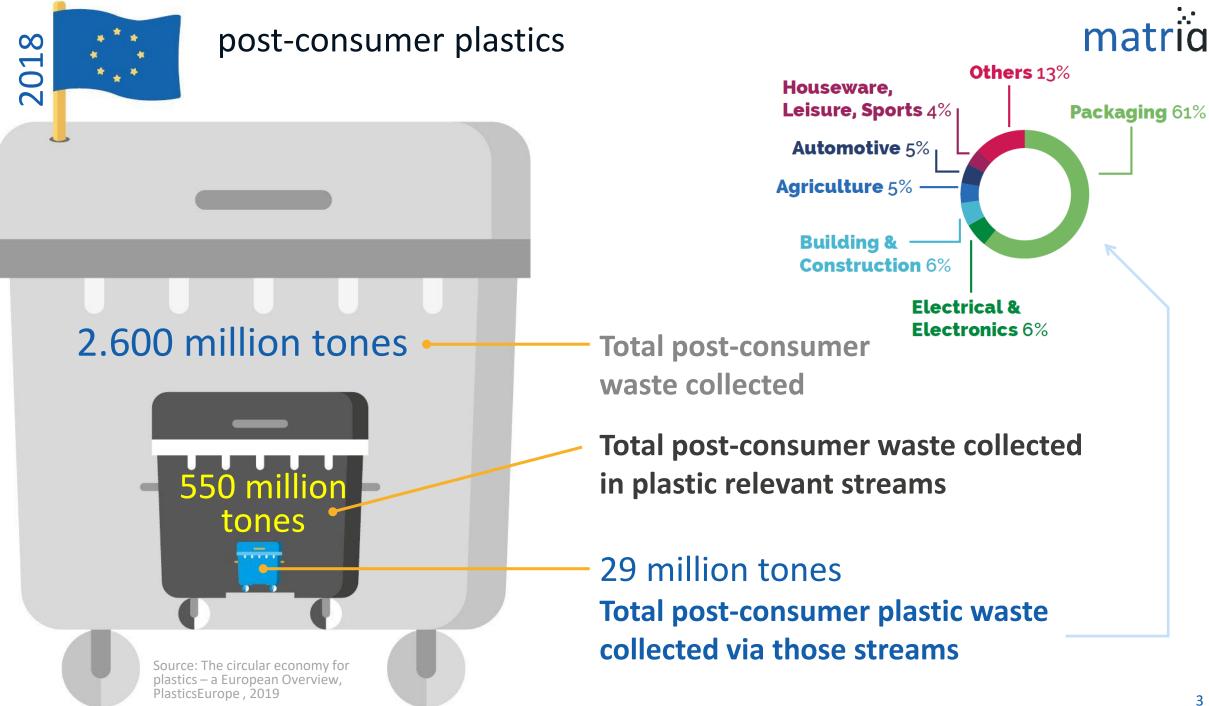
identity

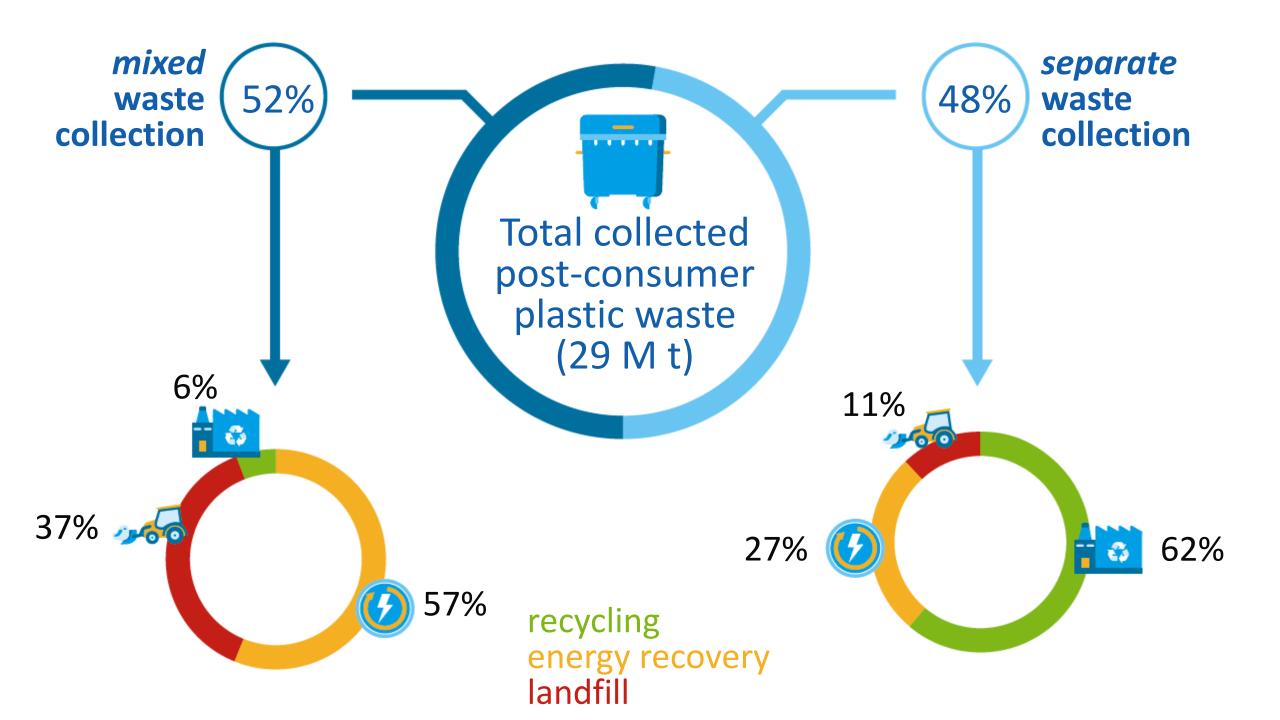
brand trust



industry 4.0







post-consumer recycled material

- use recycled materials (rPET, rPP, ...)
- bring PCR-based value proposition to market

- reduction of hazardous materials
- use recyclable materials
- produce lighter-weight products
- use plastics for "meaningful" products





eco by desing

design products "prone to be" recycled



external recycling 6



- introduce circular economies
- separate, identify, and collect "unmixed" batches
- create awareness, educate people and provide opportunities for recycling
- advance chemical recycling technologies
- use highly productive and efficient processes
- back-feed production-site waste and rejects

fab-level recycling



materials

post-consumer recycled material

use recycled materials (rPET, rPP, ...)

■ bring PCR-based value proposition

reduction of haza materials

use recyclable ma

produce lighter-w products

use plastics for "meaningful" products

external recycling 5



helpful / important to know the origin and fate of plastics product in their life cycle by track & trace!

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"prone to be" recycled

materials

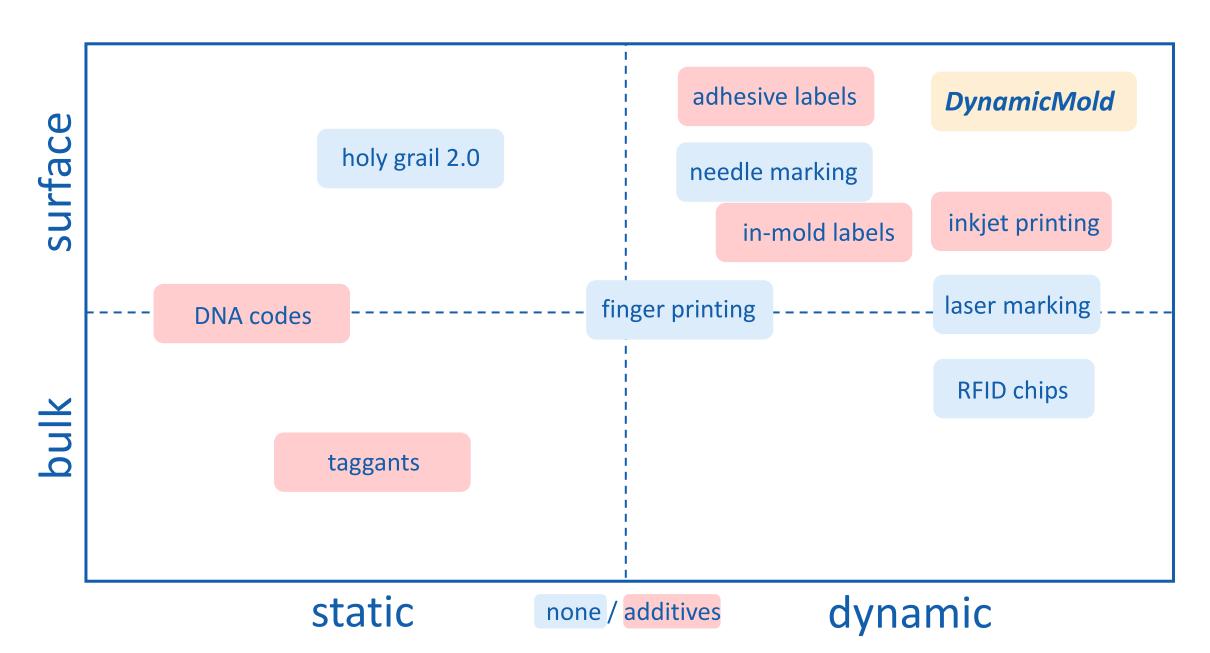


- use highly productive and efficient processes
- back-feed production-site waste and rejects

fab-level recycling

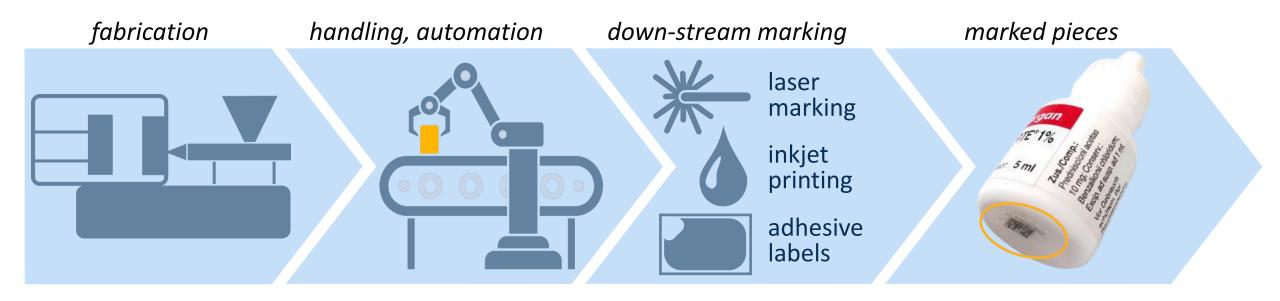
identity and traceability for plastics products





the problem: today's marking is costly and complex...

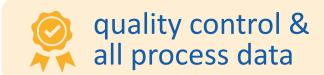




... but often required or mandatory for:







the solution: integrated in-mold ultrafast marking





in-mold marking insert patents granted

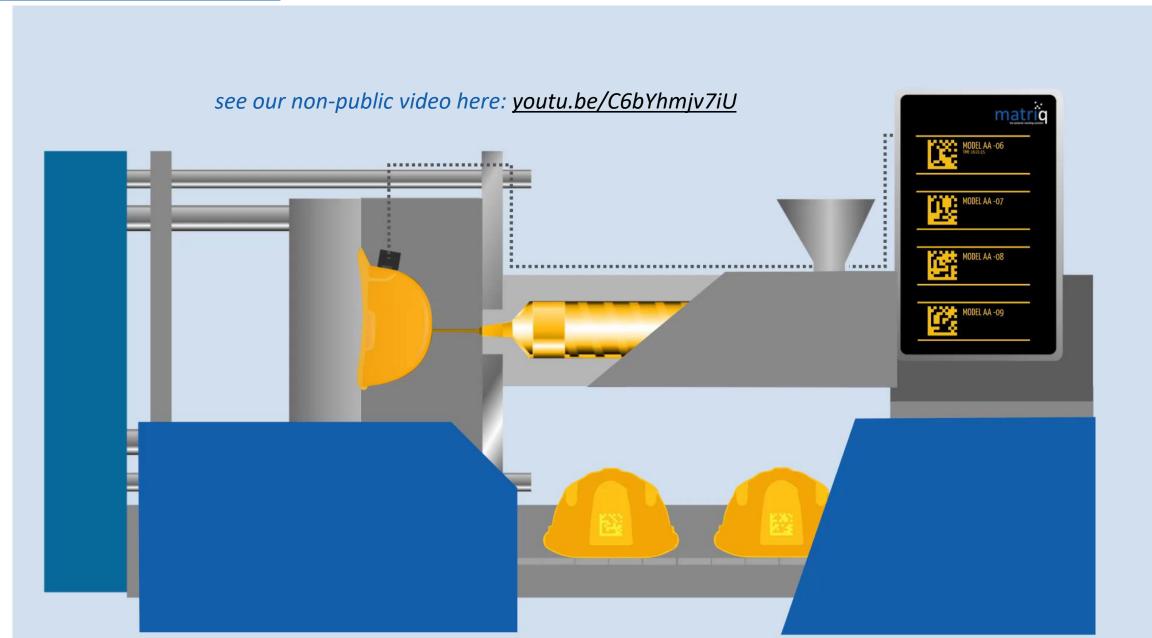
Ø8mm



- + ultra-fast within forming cycle
- + all standard polymers
- + >60% cost reduction

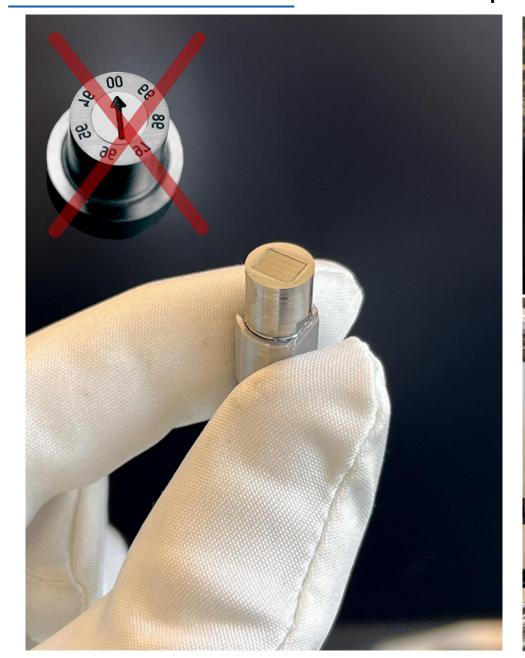
our innovative solution: DynamicMold variable marking in action



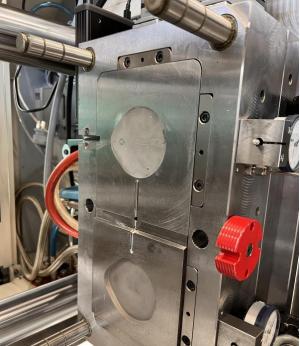


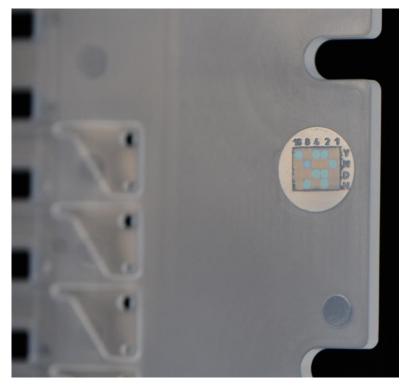
DM-*date*: date and time stamp on your products













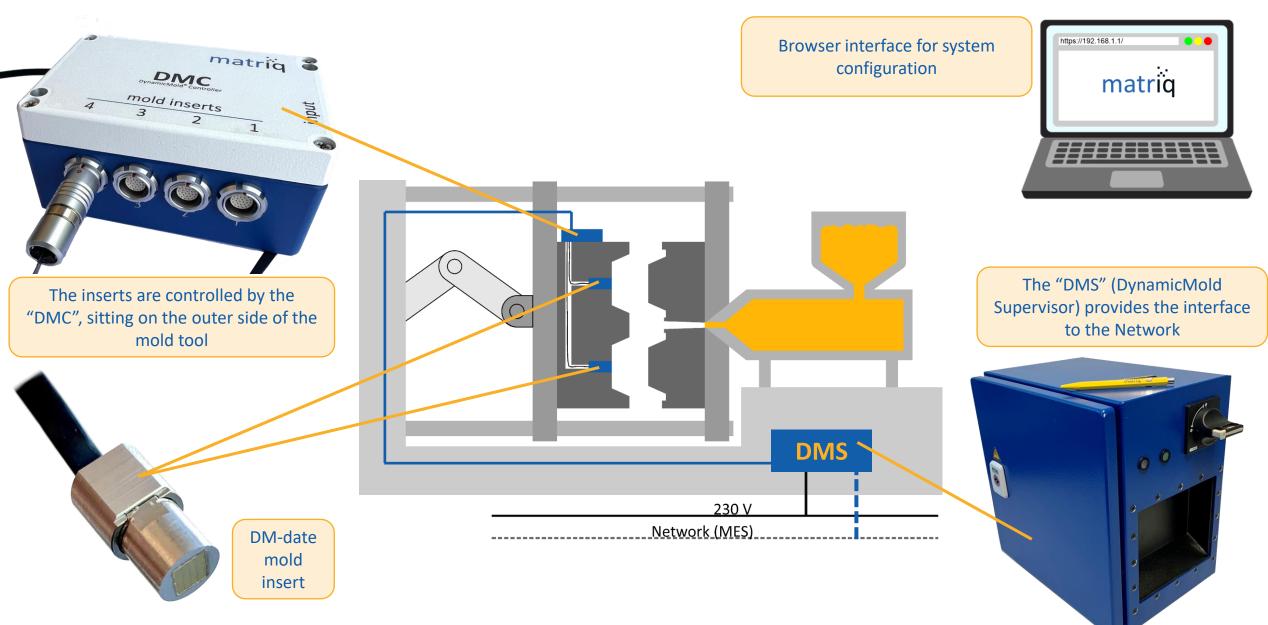
injection molding video with DM-date





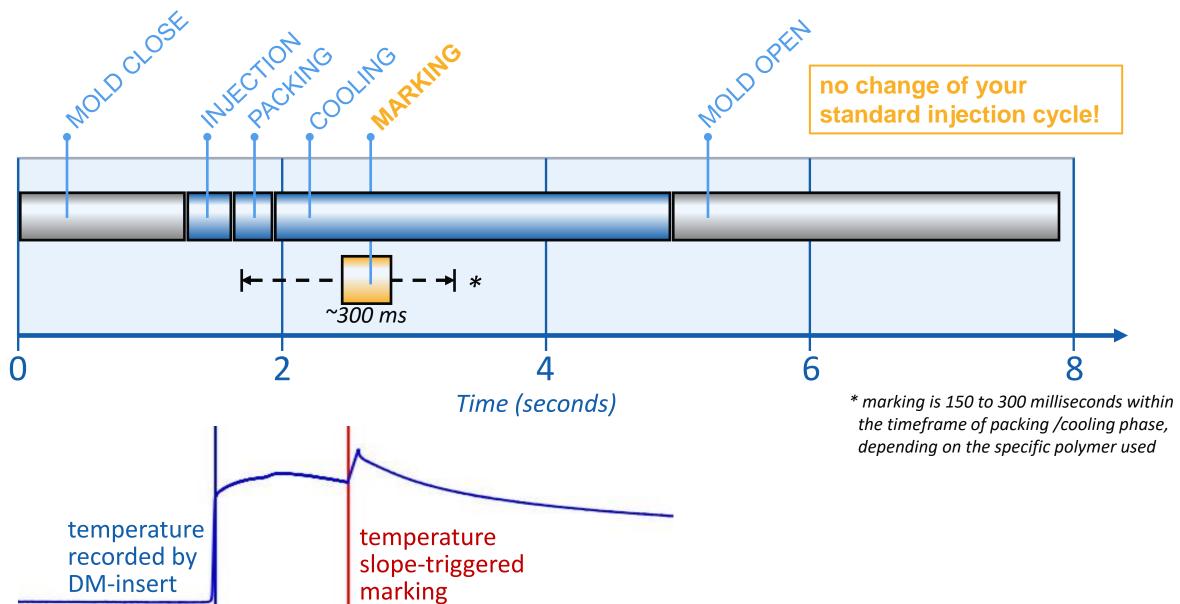
DM-*date*: system overview





injection molding cycle incorporating marking by *DynamicMolding*



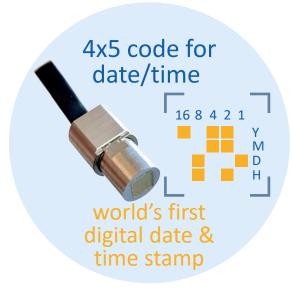


matriq's products roadmap



for in-mold, ultrafast, individual direct part marking

DM-*date*



mold.iq

enables the identification and surveillance of mold tools



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DM-*qode*

14x14 code serial number



data management

digital twin serial number processparameters meta-data



2022 2023

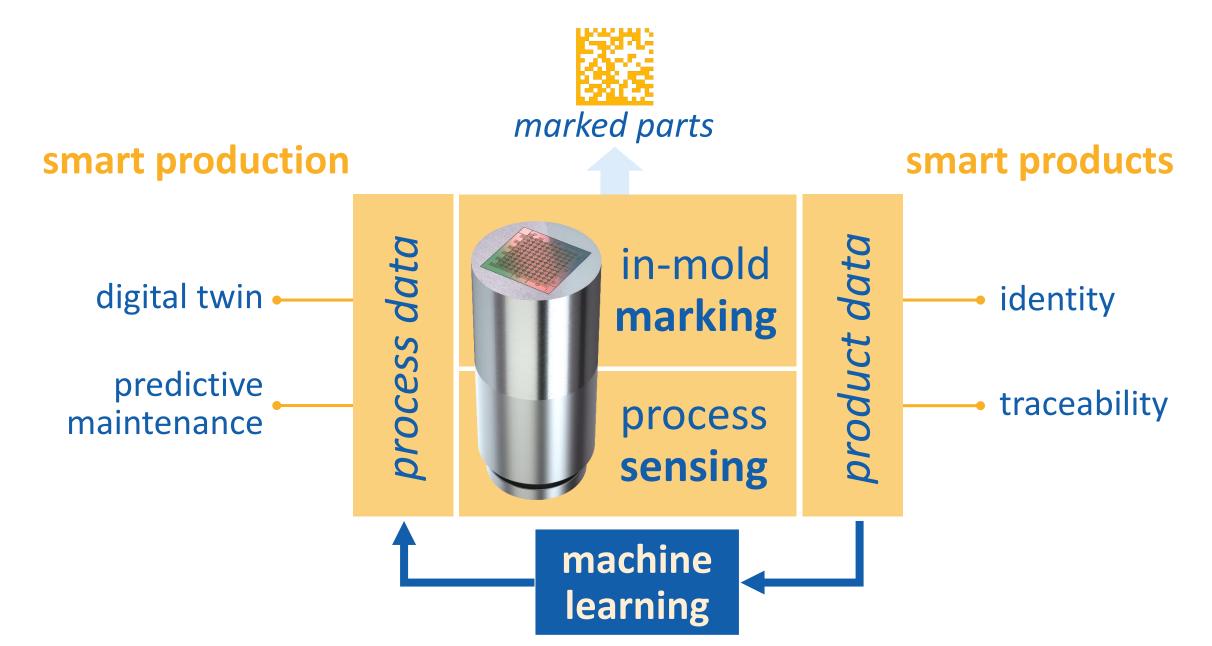
* DM-brand

customized version for brand protection / authenticity



DynamicMold combines smart production with smart products





DynamicMold impact: smarter products to valorize plastics



process

efficient and affordable process control also for material variations of recycling

POSPICE.

traceability

follow the product along its value chain and have all data about its use and end-of-life

productivity

gain higher yields and create less waste and rejects by "predictive product performance"

valorize plastics

efficient and sustainable use of plastics products

Санны



際 The unique watermark for plastics!

Our vision

matriq is the worldwide leading solution provider of plastic product marking for traceability, unique identification, and brand trust.



matriq AG

Lerchenfeldstr. 3, 9014 St. Gallen, CH

sales & customer support:

Asma Jebali | André Bernard | Isabelle Herzog Yasmine Afifi | Edwin Schellenberg









