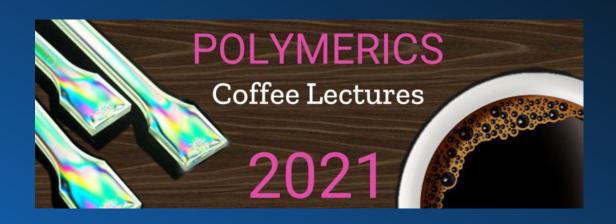


July 01, 2021 – 13:40 – Impulsvortrag

DynamicMold: Plastik wird intelligent

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

why it's needed



legislation compliance



track and trace along its life cycle



managing recall campaigns



quality control process details



brand protection consumer trust













market opportunity: market sizes in 2020



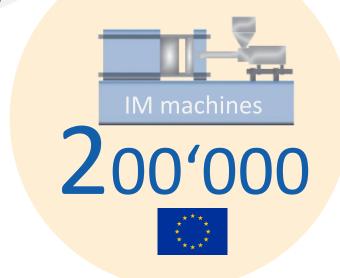


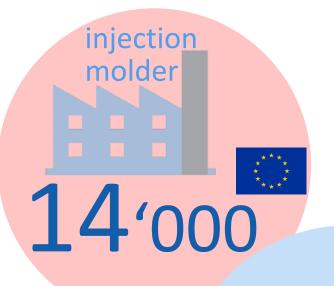
coding marking

5.5bn

(5.5%)

(4.6%)







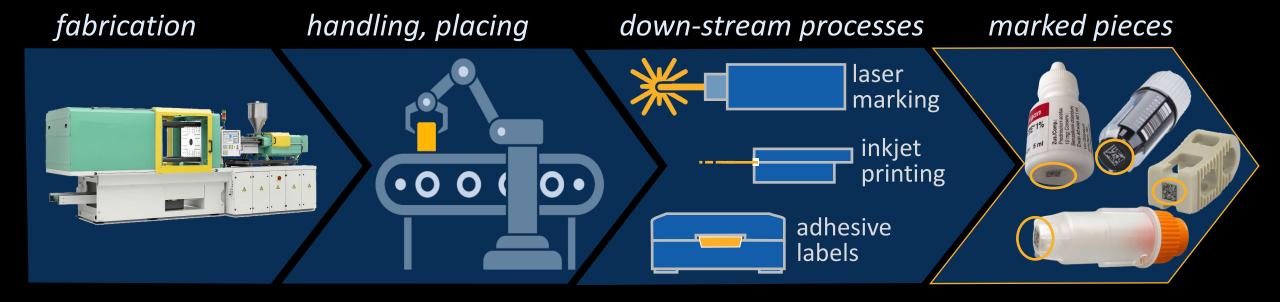
1.2bn

(8.2%)

(CAGR)

the problem: marking is needed but complex





fabrication & marking marked pieces

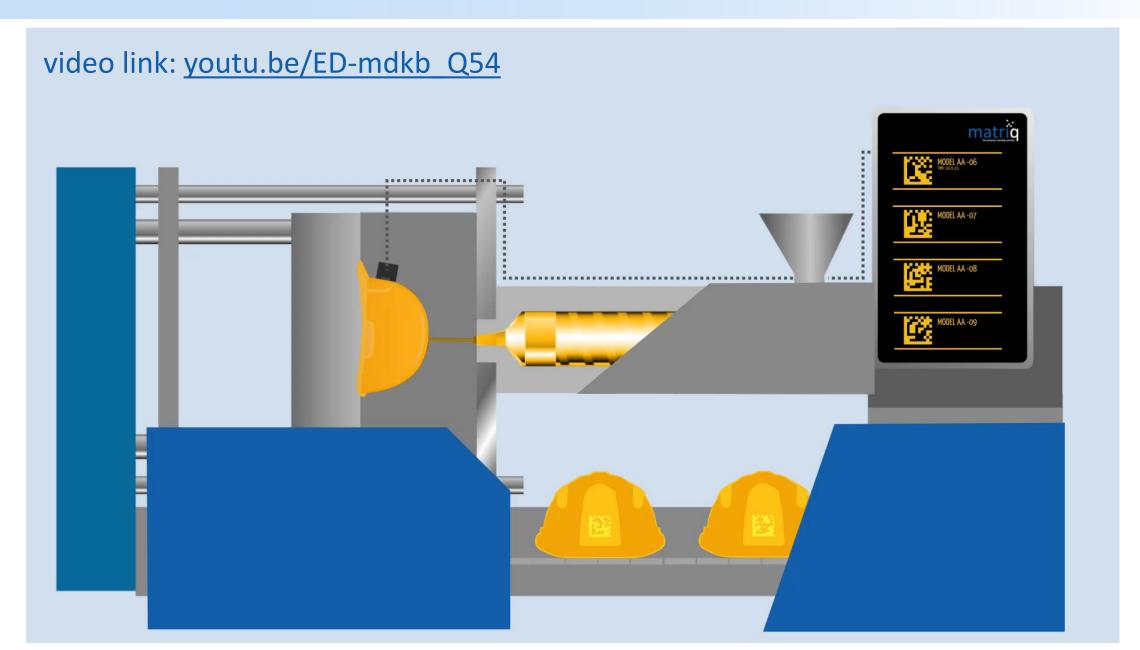


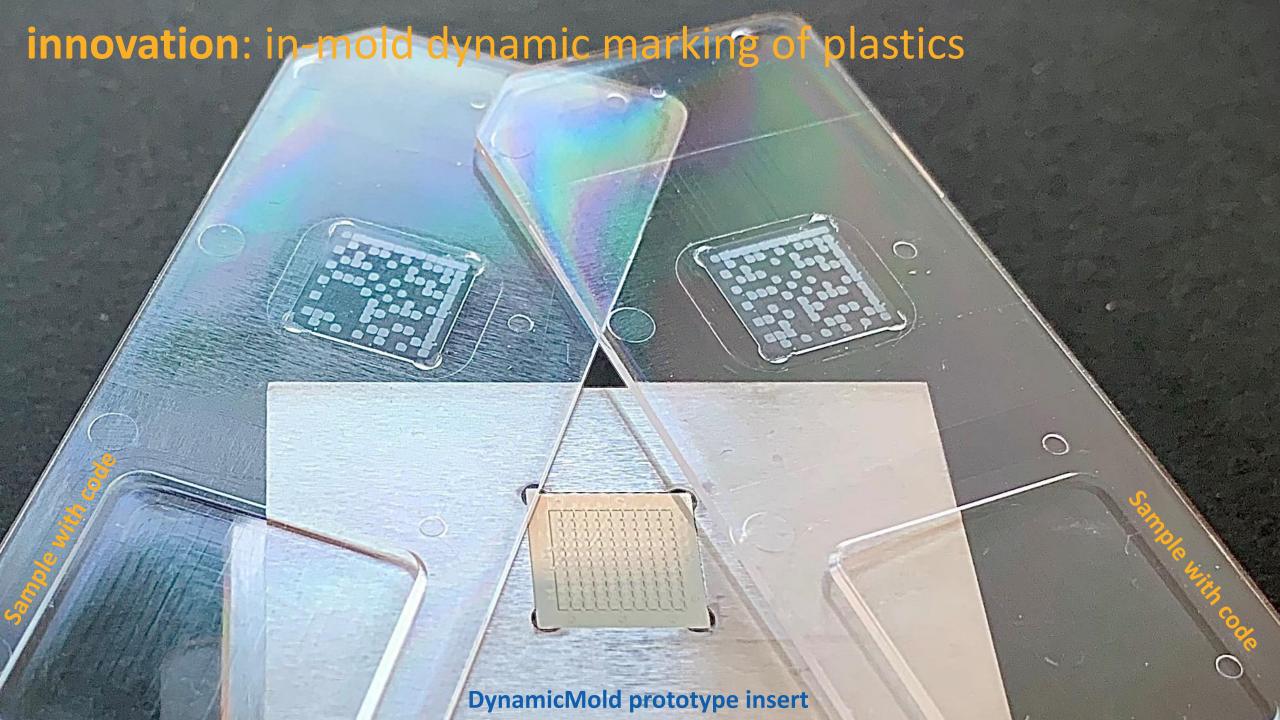
- + in-mold vs. down-stream
- + faster production
- + no additional space
- + less complex, less costly
- + no polymer additives needed
- + «digital twin» right at birth

DynamicMold

our innovative solution: DynamicMold variable marking

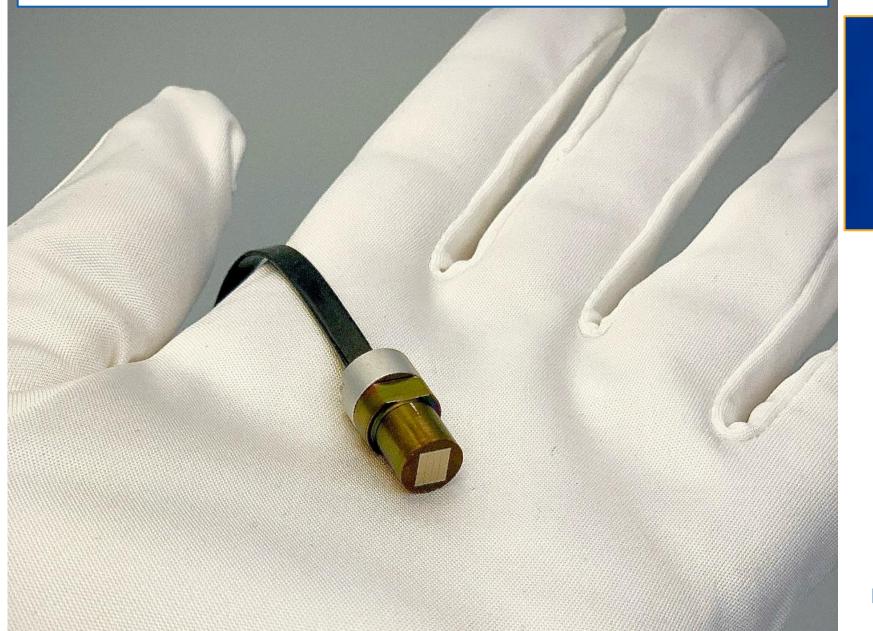






DM-date: world's first true digital date stamp



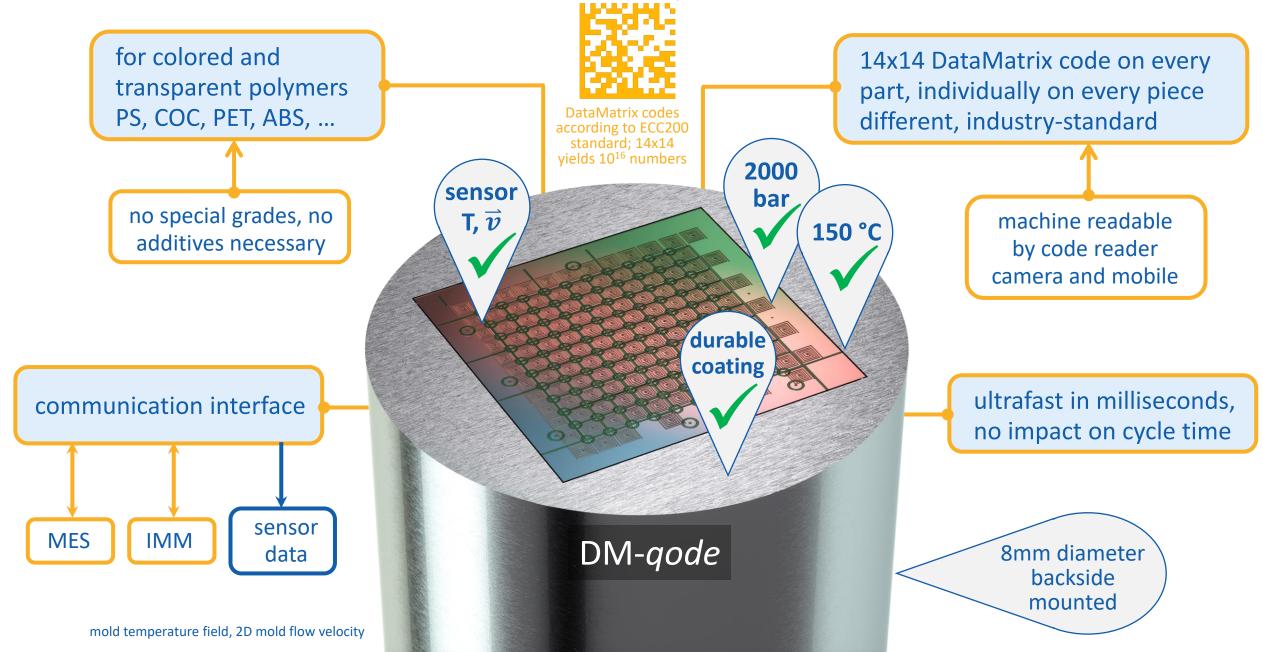




manual date stamp

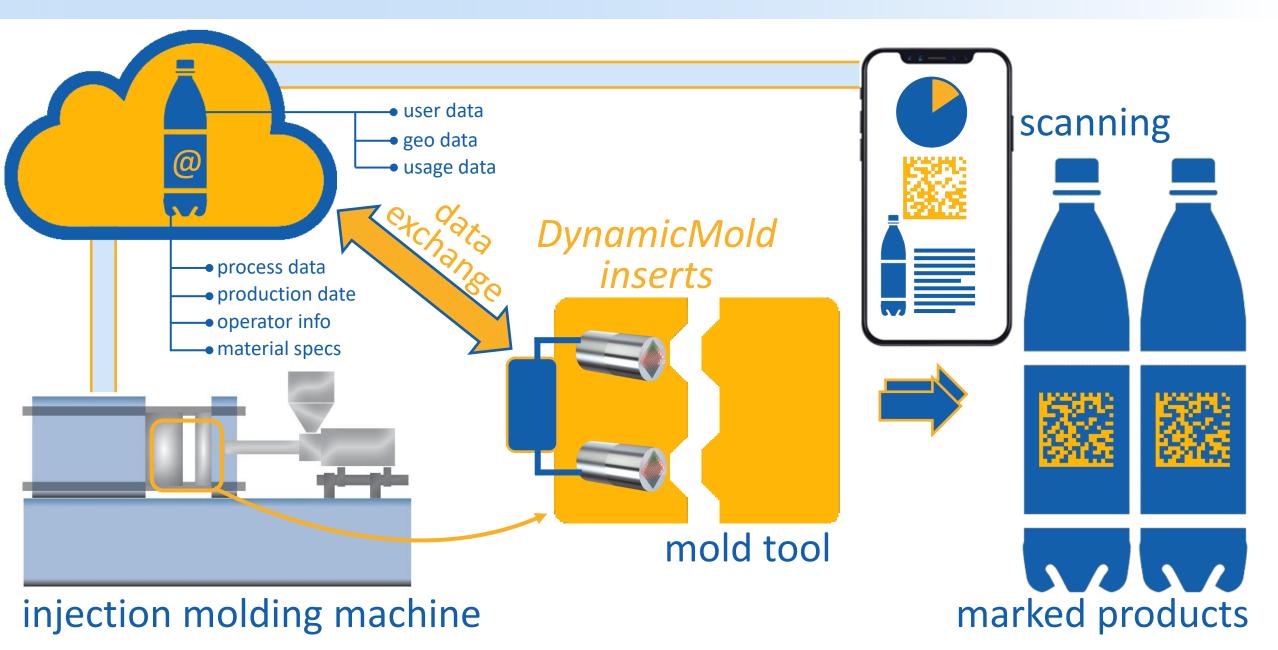
matriq's DynamicMold insert: turn-key solution for marking





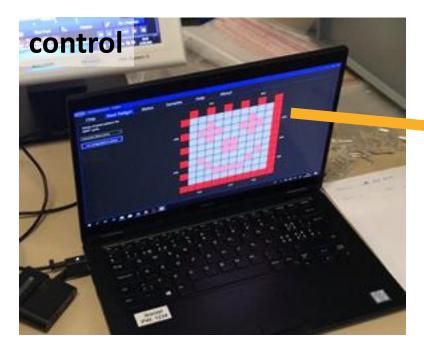
DynamicMold creating the digital twin



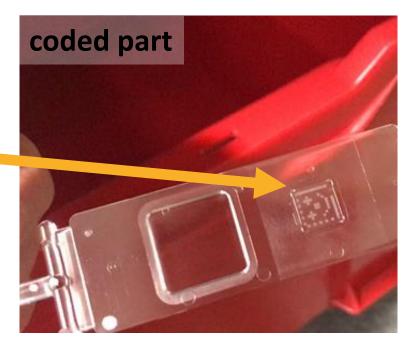


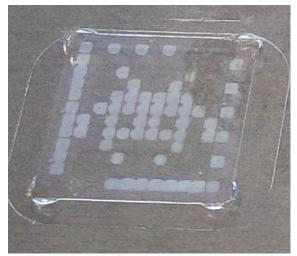
DataMatrix codes generated in milliseconds

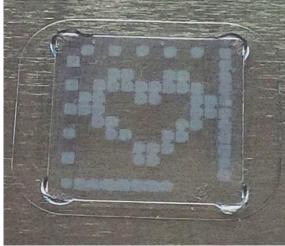


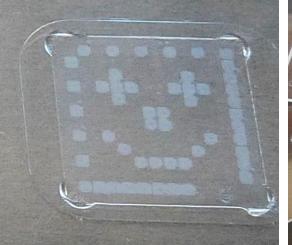


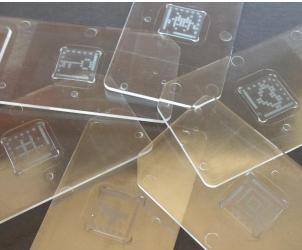






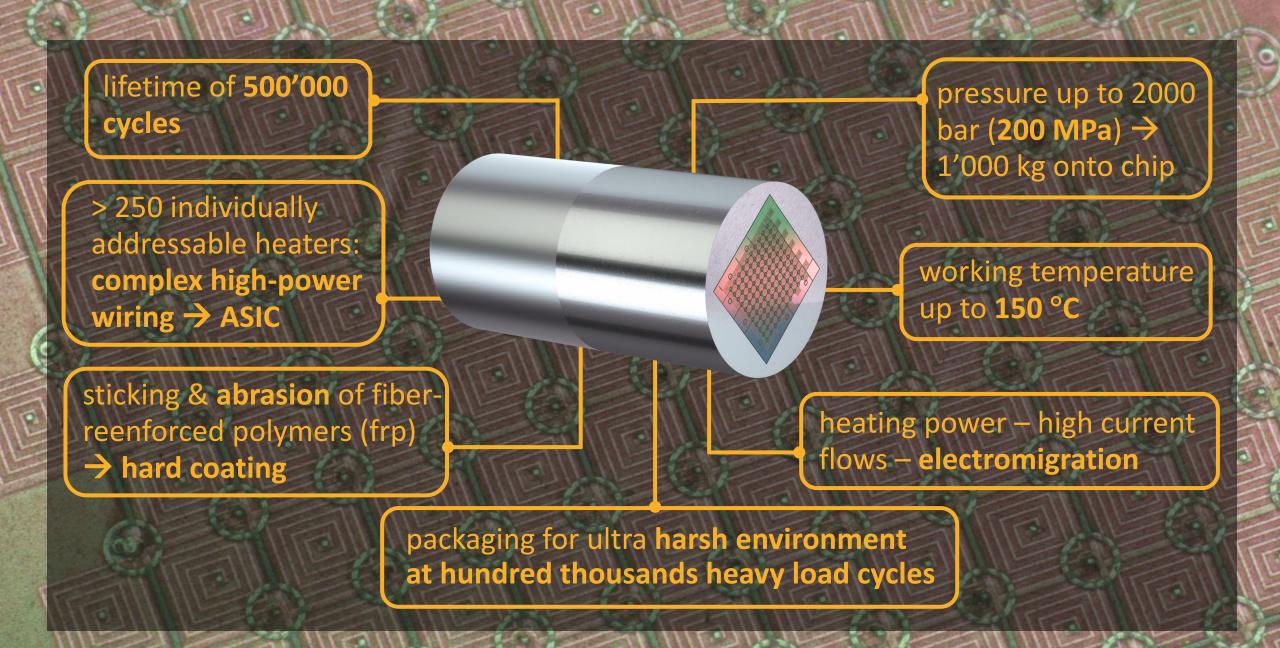






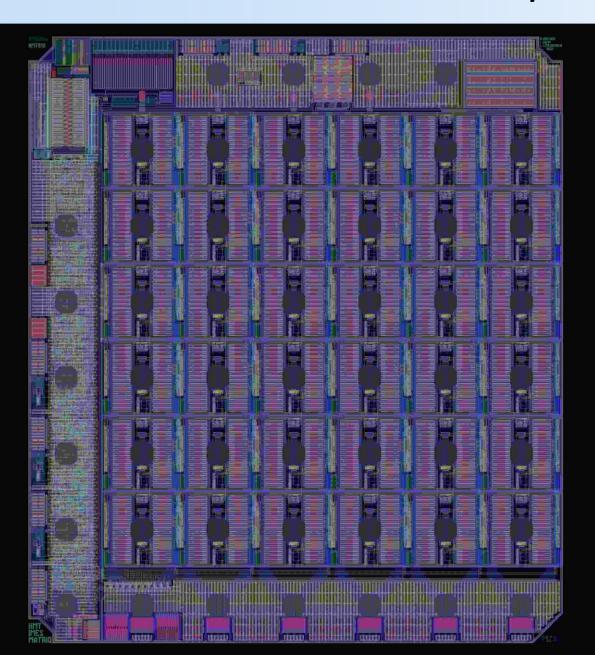
challenges for micro/nanosystems at in-mold applications matrig





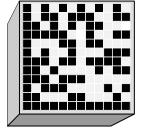
matriq's ASIC for a miniaturized smart DM-qode





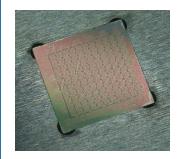
hardware: our product portfolio plan



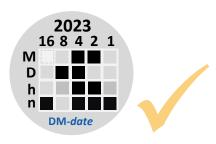








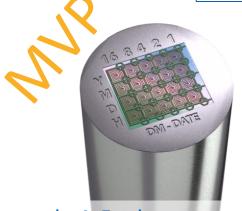
- prototype
- code 12x12
- area 10x10 mm²
- injection molding
- PS, 100'000 cycles





DM-date

DM-qode¹⁴



- code 4x5 «date stamp»
- size Ø 8mm
- injection molding
- customized:DM-brand and DM-mate



- code 14x14
- area 6x6 mm² / Ø 8mm
- injection molding, thermo forming, blow molding, hot embossing





partners and collaborators









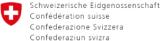


Fachhochschule Nordwestschweiz Hochschule für Technik









Swiss Confederation

Innosuisse - Swiss Innovation Agency



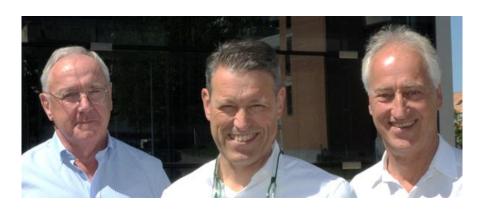












board of directors



advisory board



consulting supporter

matriq in a nutshell



- October 2019
- NTB Spin-off



- IP @ matriq
- patent granted
- freedom to operate



- 16 team members
- 10.3 FTE (1.6.2021)



- >2.5 MCHF for R&D
- 2 Innosuisse projects
- eurostars, EIC accelerator
- recognition, awards, prizes













Innosuisse – Swiss Innovation Agend



capital invest: >2 MCHF



@Startfeld Innovation CenterLerchenfeldstr. 3, 9014 St. GallenSwitzerland matriq.ch