



AUTAZA

Company Presentation

Renan Padovani
renan@autaza.com

Who we are

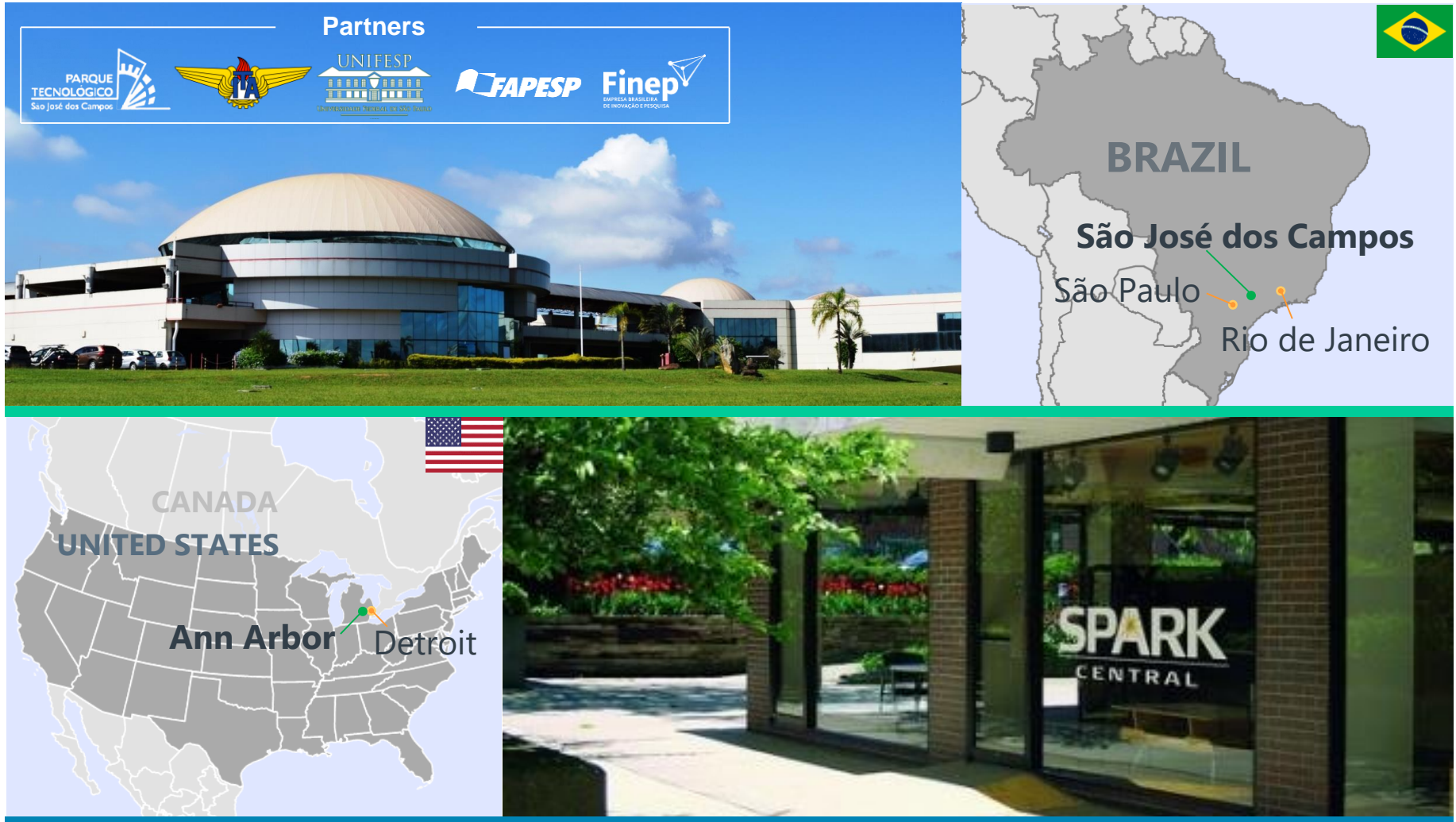
Our team

We are experts in
COMPUTER VISION and
ARTIFICIAL INTELLIGENCE for
for industrial **QUALITY INSPECTION.**



Headquarters location: São José dos Campos, SP, Brazil

Subsidiary in Ann Arbor, Michigan, USA



Consider the inspection activity in the industry

The inspector compares the produced parts with a quality standard



Nowadays...

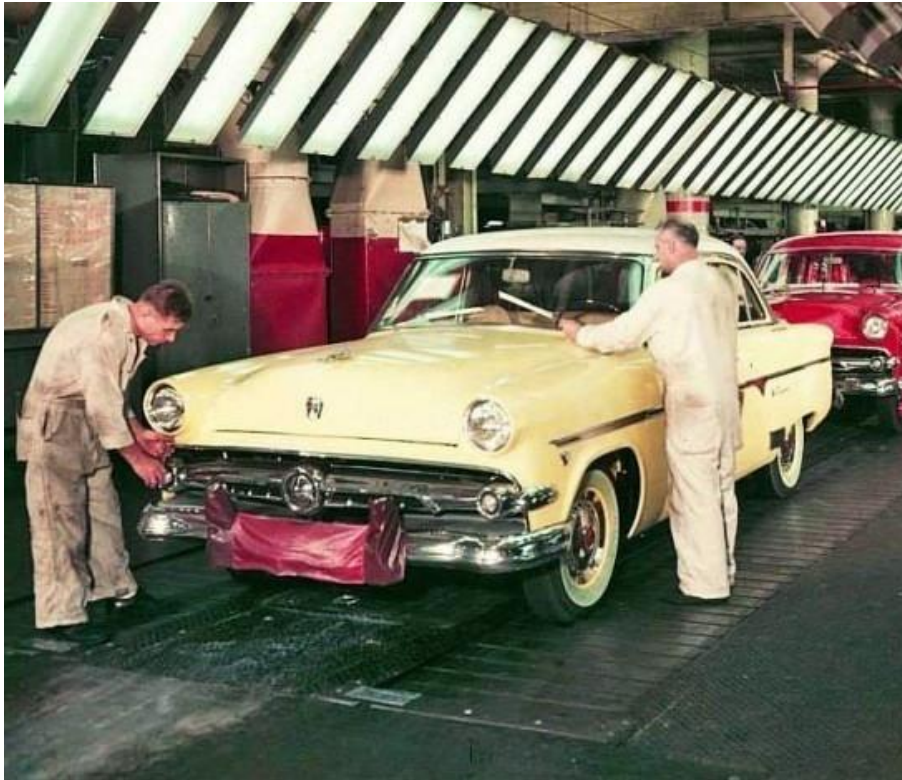


40%
of inspections
are NOT in
accordance with
the standard.

In **20%** of the cases,
the results are
DIFFERENT in a second
blind evaluation.

WRONG classification
generates
30%
more reworks.

The appearance inspection continues **subjective** despite the great technological advances of the manufacturing industry



1954



2019

Our solution

Methodology

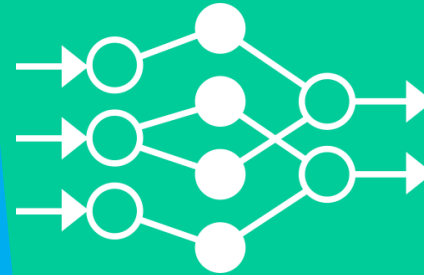
Intelligent quality inspection



**Image or
3D data**



Database



**Artificial
Intelligence**



**Intelligent
Inspection**

Autaza PAINT

Paint inspection



Identified defects

Dirt and Dust
Scratches
Orange peel



Pat. INPI BR 10 2016 028266 7

Technical specification of the product

Autaza Paint



Inspection Time
38 s/m²



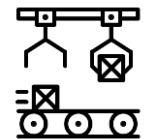
Inspection Area
300 x 280 mm



System Resolution
36 px/mm²



Defect Size
500 µm

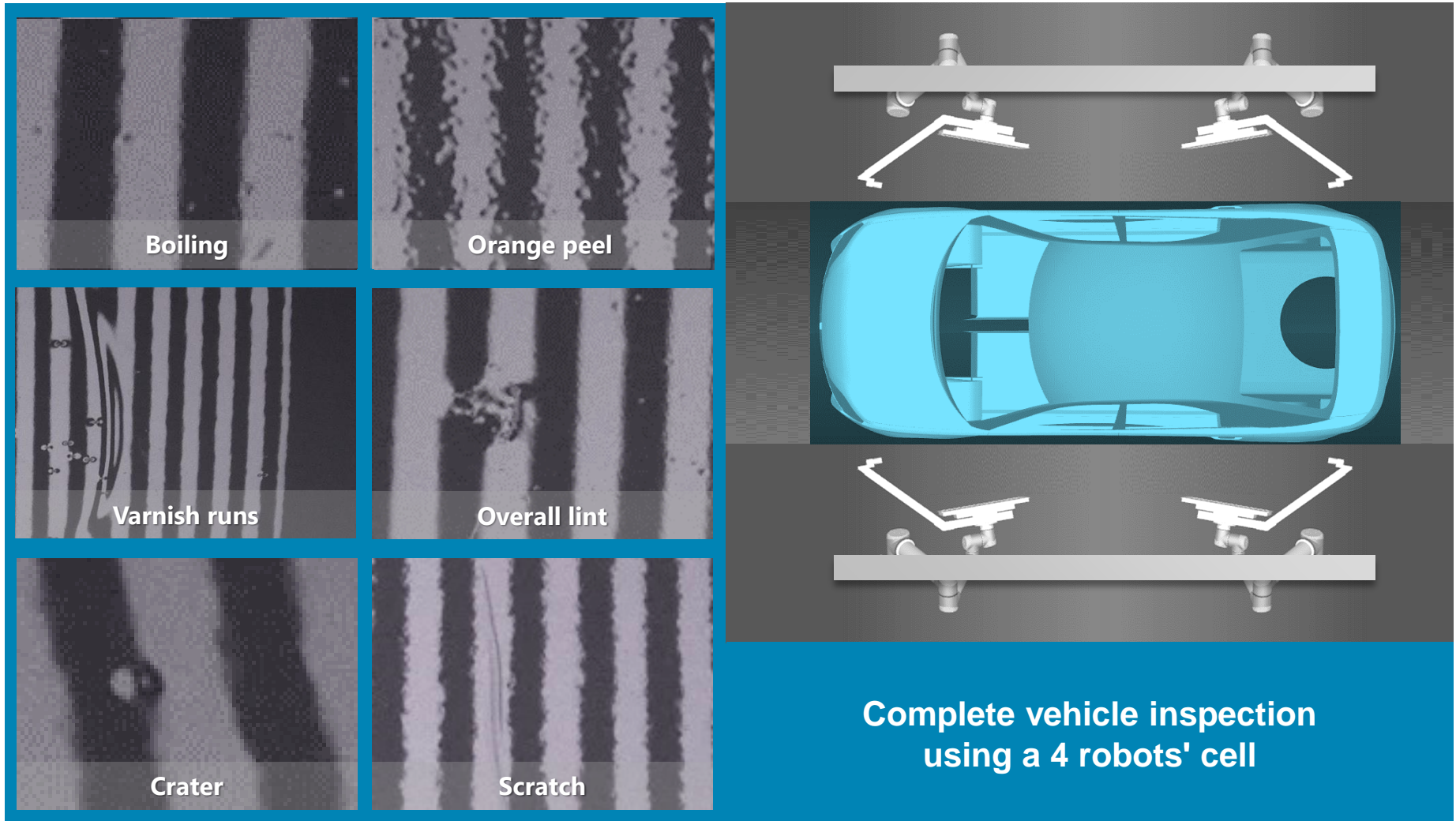


Implementation
In line



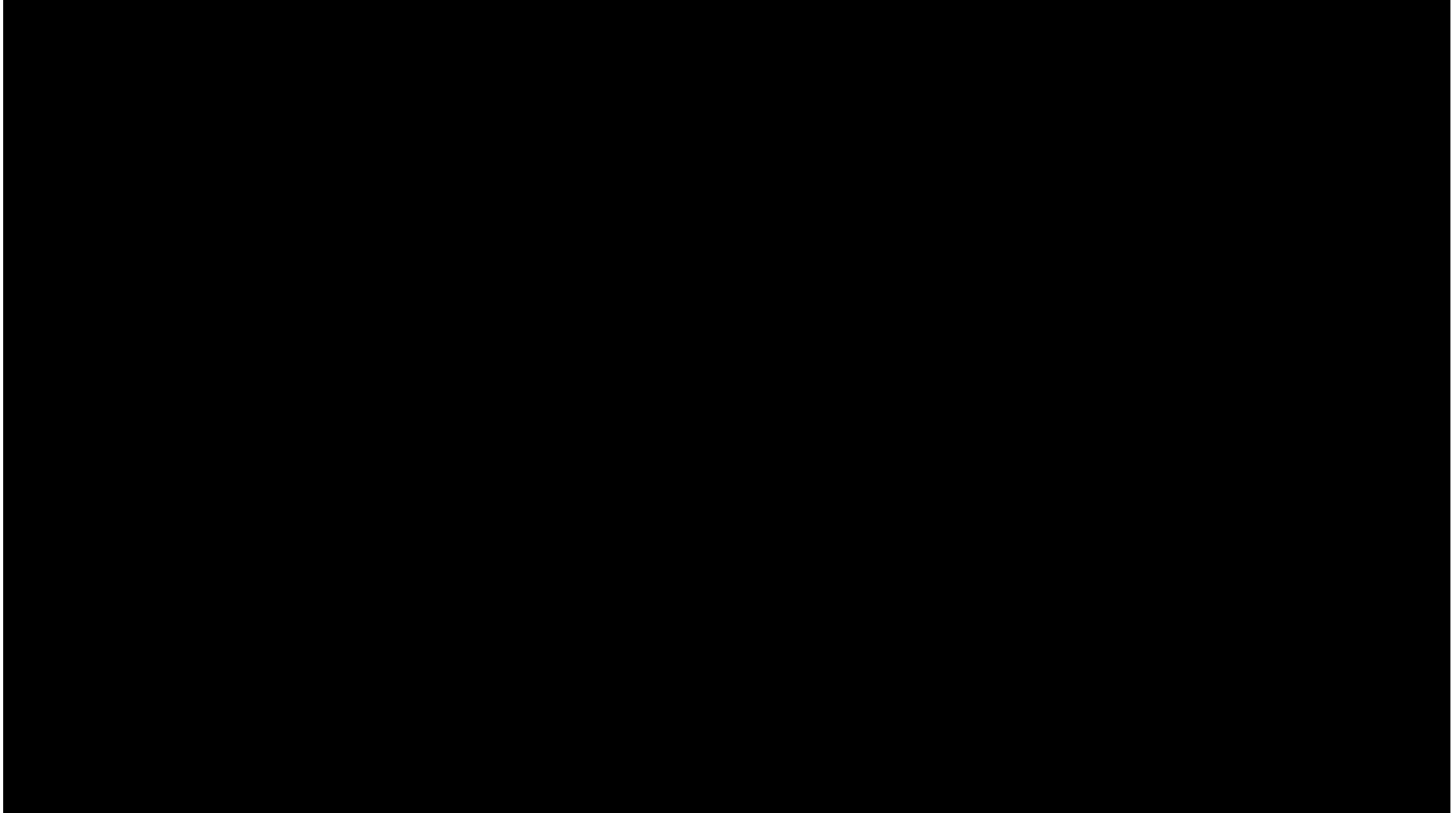
Automatic Inspection using Autaza Paint

In-line inspection cell and defects identified



Autaza PAINT

Paint inspection



Autaza HYBRID

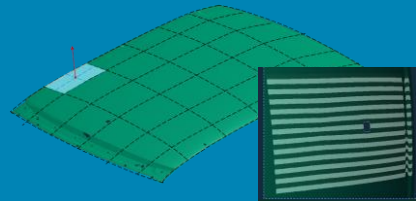
Inspection of car bodies using 3D Scanning



Scanner



Virtual Inspection



Classification



Defects identified

Dings
Waviness
Dents

Technical specification of the product

Autaza Hybrid



Inspection Time
3 min/m²



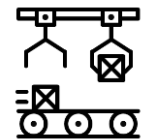
Inspection Area
364 x 273 mm



System Resolution
27 px/mm²



Defect Size
20 µm

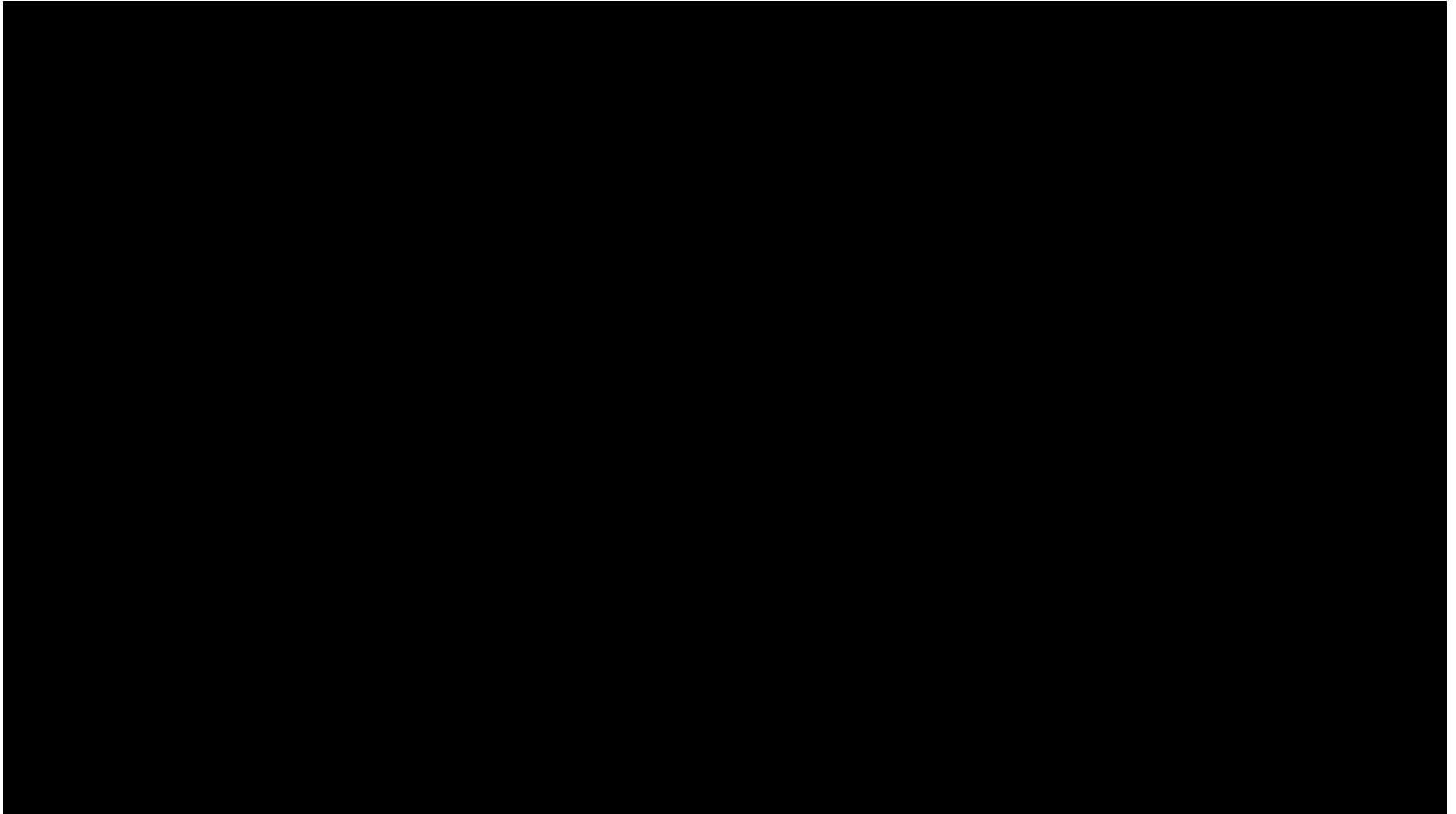


Working Distance
800 mm



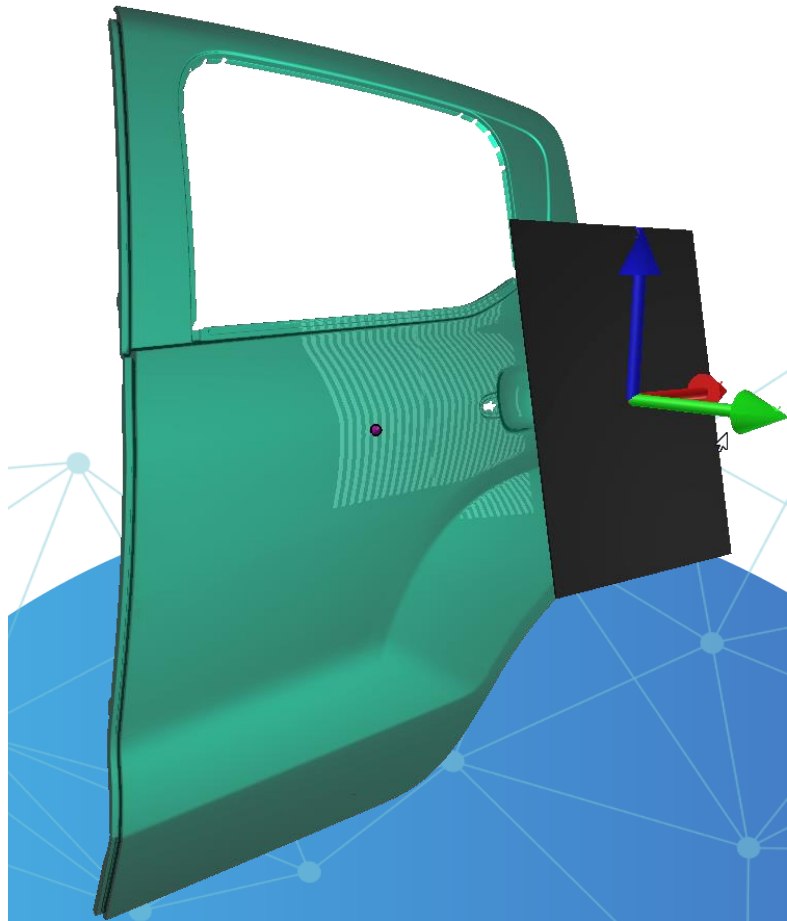
Autaza HYBRID

Inspection of car bodies using 3D Scanning



Autaza Surface

Surface quality inspection for simulated parts



Virtual environment inspection
after spring-back simulation

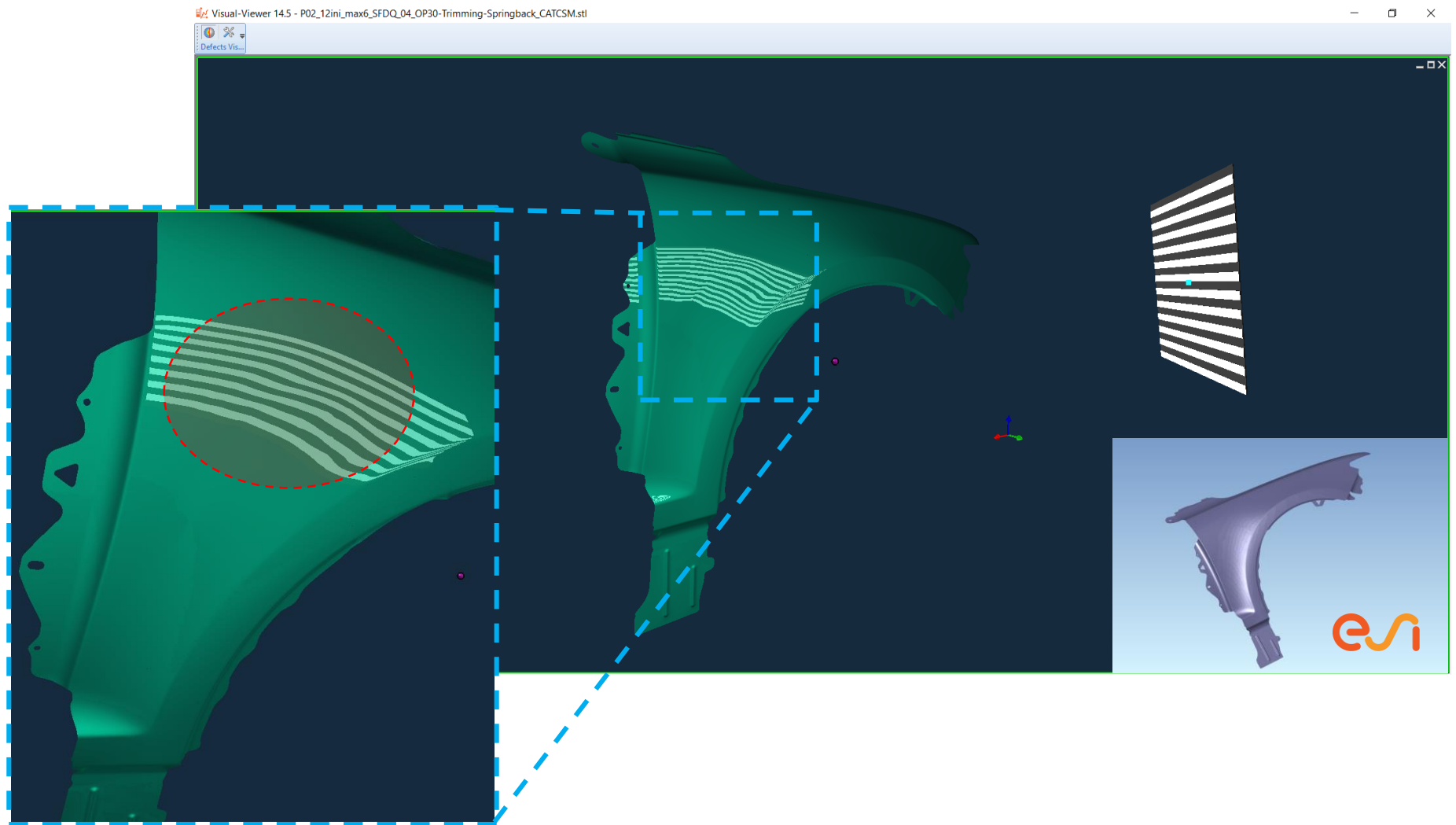


esi | PAM-STAMP

Pat. INPI BR 10 2016 028266 7

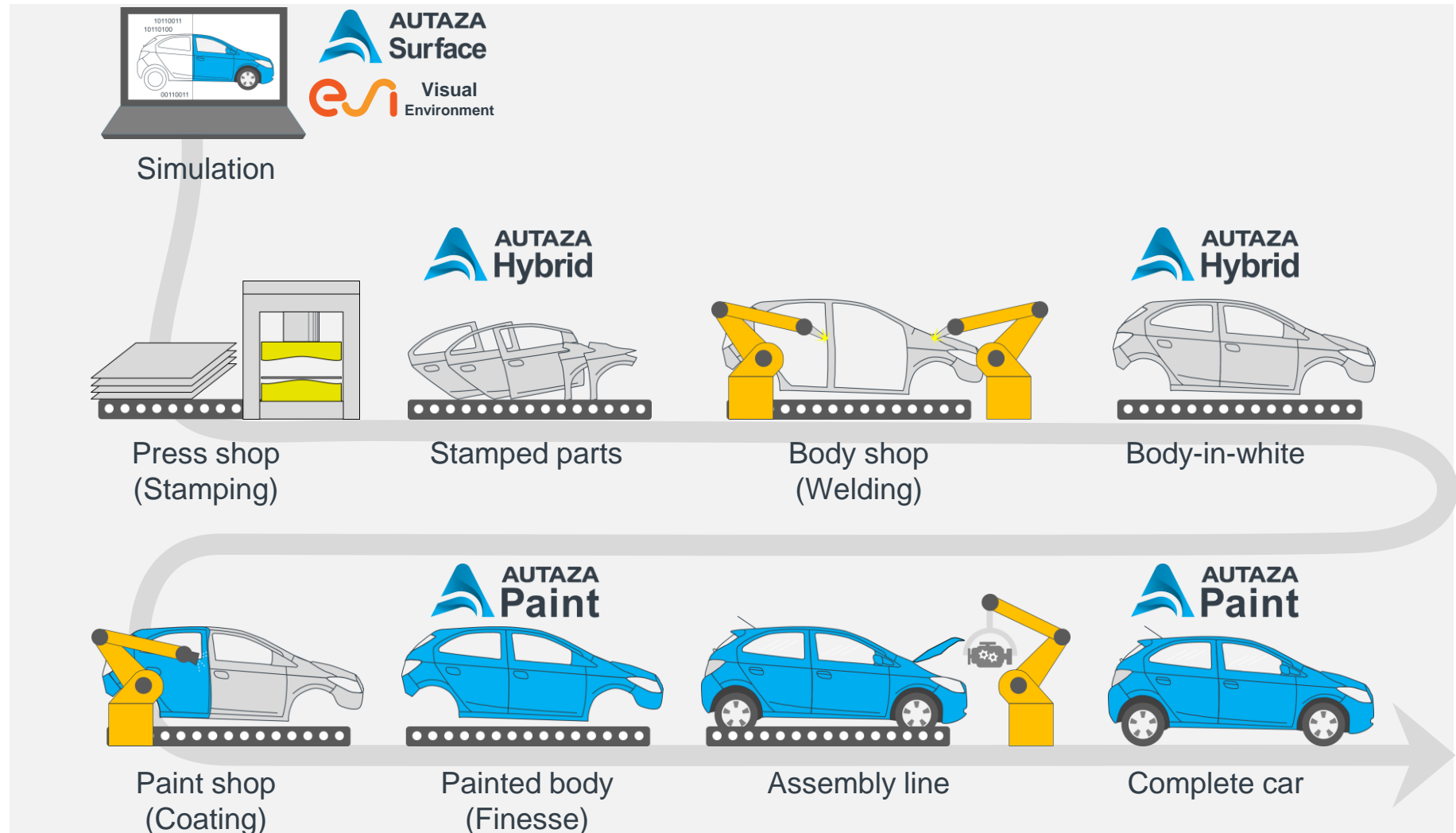
Inspection using virtual light projection

Automotive part



Inspection opportunities in the automotive industry

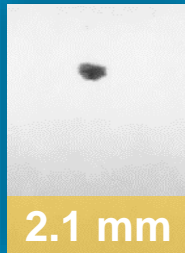
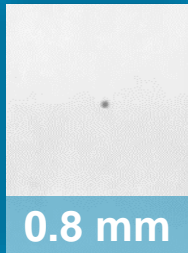
Autaza inspects from a simulated part to the finished car



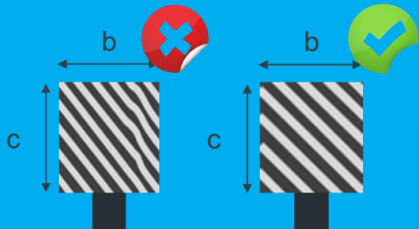


Identified defects

Optical distortion
Thickness distortion
Bubbles and impurities



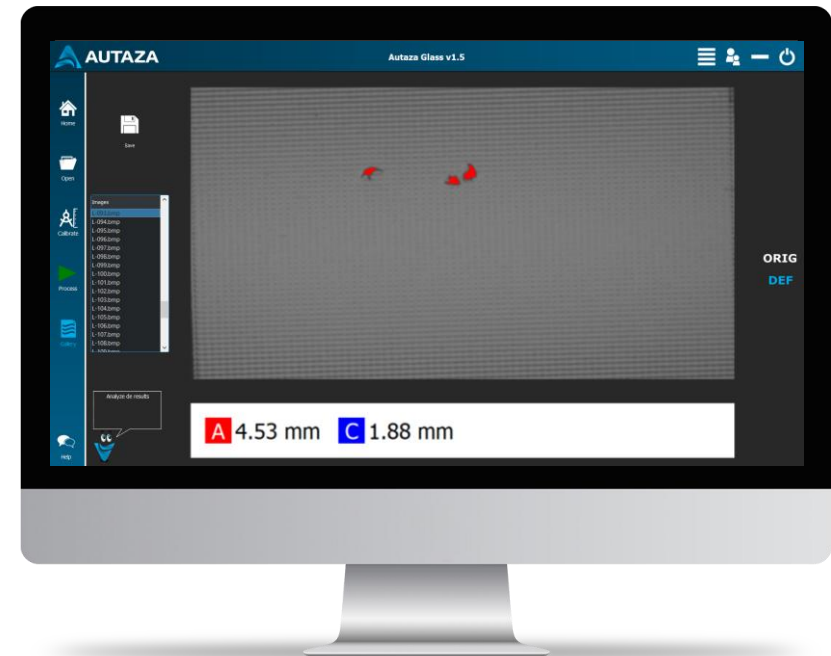
Glass inclusion identification



Optical distortion



Thickness variation



Technical specification of the product

Autaza Glass



Inspection Time
7 m/s



Inspection Area
500 x 200mm*



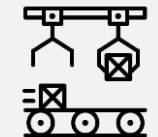
System Resolution
16 px/mm²



Defect Size
0,6 mm



Implementation
In line



*Per camera



Identified defects

Lightning strike
Dents
Features identification



Technical specification of the product

Autaza Aero



Inspection Time
2 s/m²



Inspection Area
1153 x 608 mm



System Resolution
12 px/mm²



Defect Size
1 mm (LS*)



Implementation
MRO



*LS (Ligthning Strike)

Autaza systems provide...

**100% inspections
with the unique
and INTELLIGENT
mathematical
STANDARD.**



**Inspection
TRACEABILITY
with
unified
database.**



**Generated
SAVINGS can
reach 60% of
the current
rework costs.**



Our Clients

Brazil, USA e Germany





AUTAZA



www.autaza.com



[/company/autaza](https://www.linkedin.com/company/autaza)



[/autazatech](https://www.facebook.com/autazatech)



[@autazatech](https://www.instagram.com/autazatech)

Thank you!!

Renan Padovani
renan@autaza.com