



Junko Niiharu

Manager

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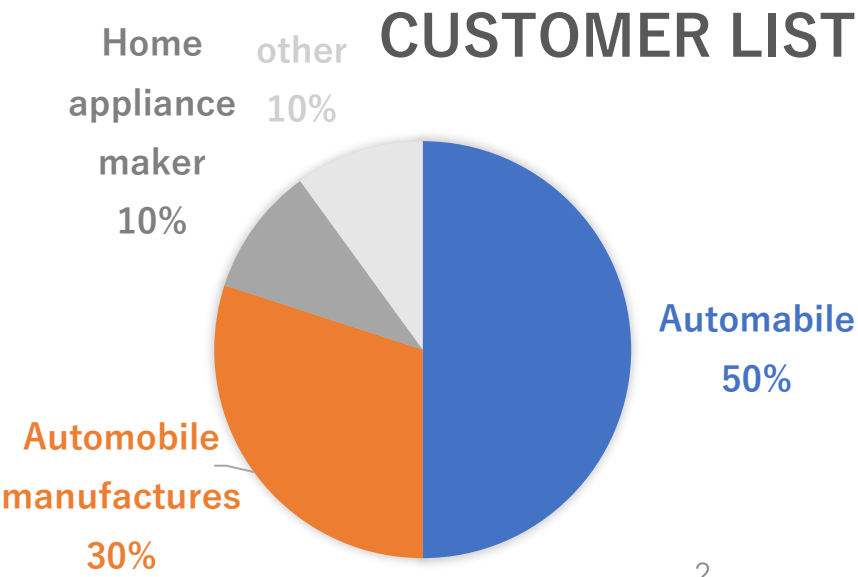
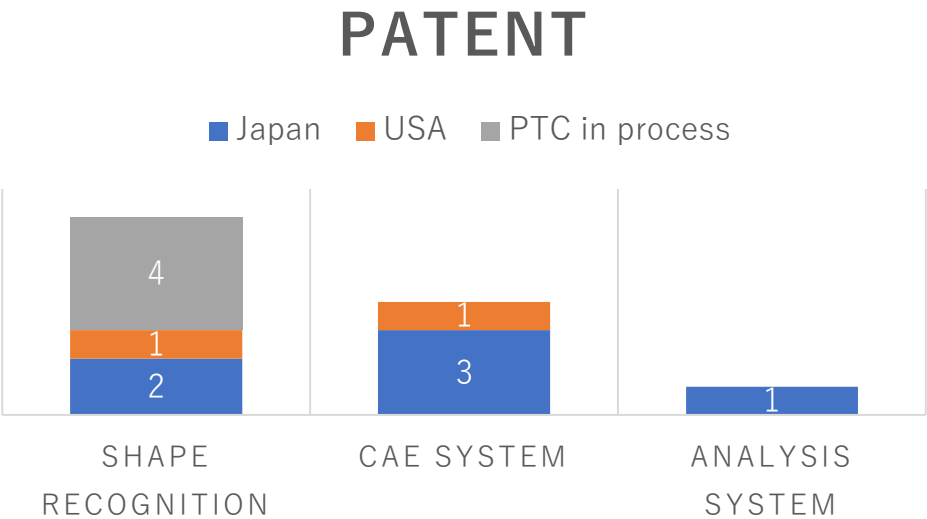
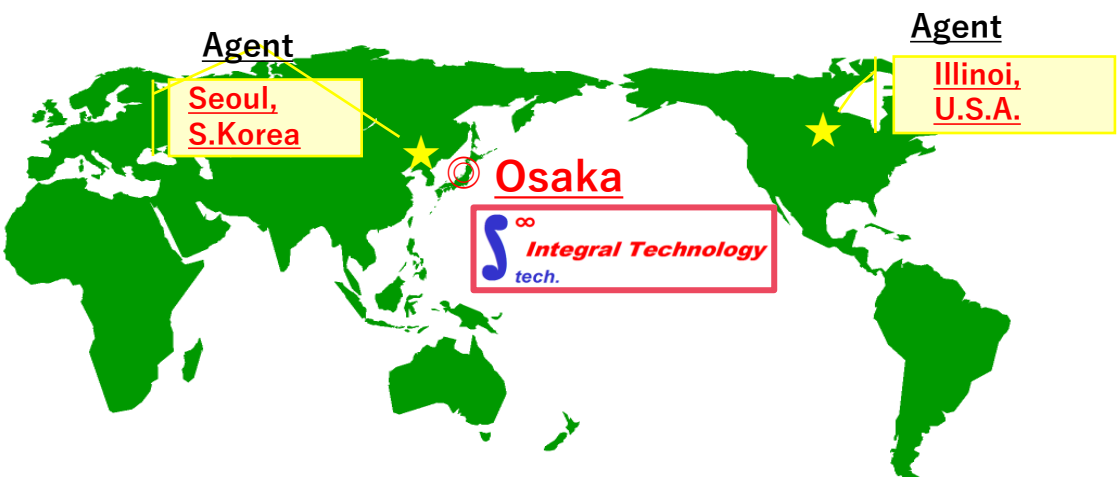
<https://integral-technology.co.jp/en/index.html>

Corporate profile

Established in April 2007

Start capital with ¥16,573,000

Core Technology:
Automatic Shape Recognition, CAE System,
AI (Multi-layered neural network)



Background

1980s'

2~3 years



Plan



Design



Prototype



1.5 years

Experiment



Analyze



Prototype



Final experiment



Product



NG



~2020

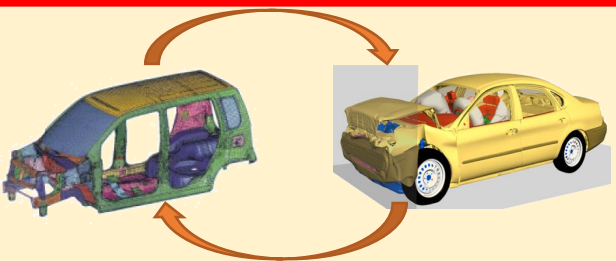
1 year



Plan



Computer Aided Engineering



Prototype



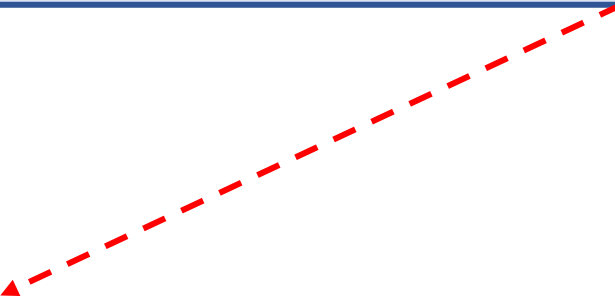
Final experiment



Product



3 months

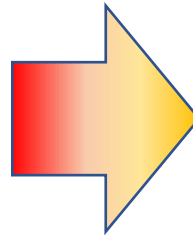
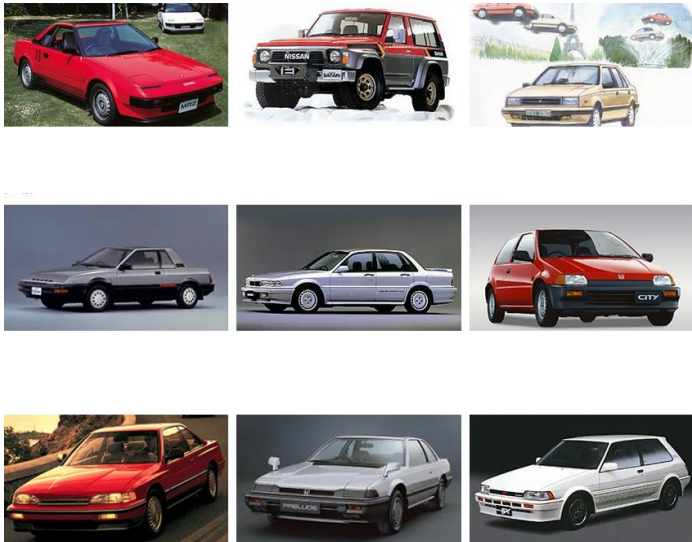


Why now

Product shift

1980's 🛢️

Quantity
Less patterned



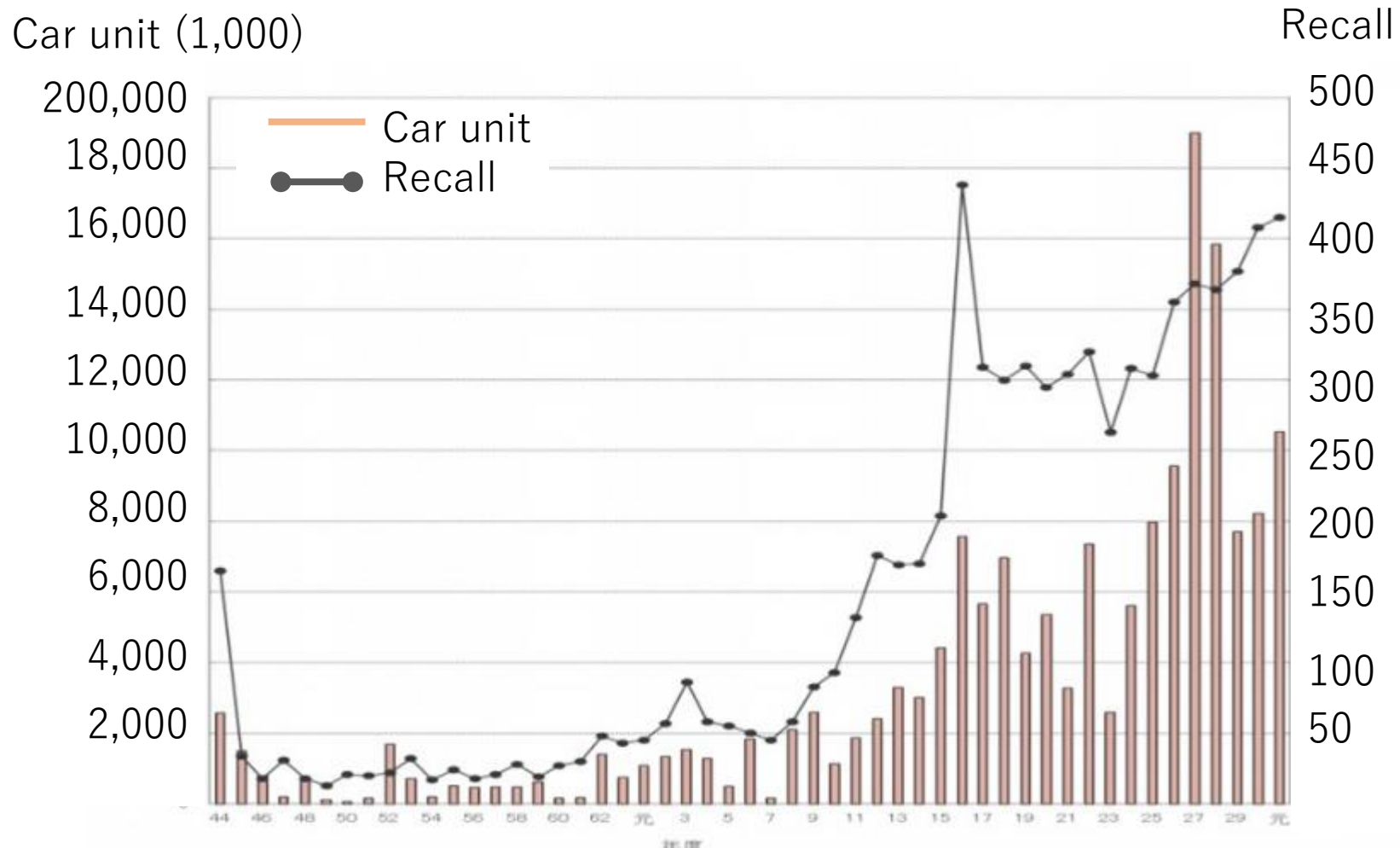
2000~ ⚡️

Diversity
New technology



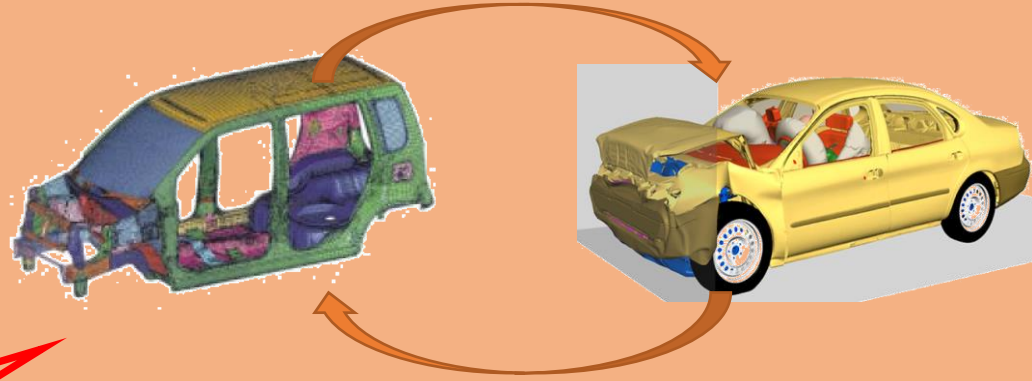
Why now

Increase of recall in Japan



Pain point

Computer Aided Engineering



Modeling

Time consuming

Pain point



Manual
operation



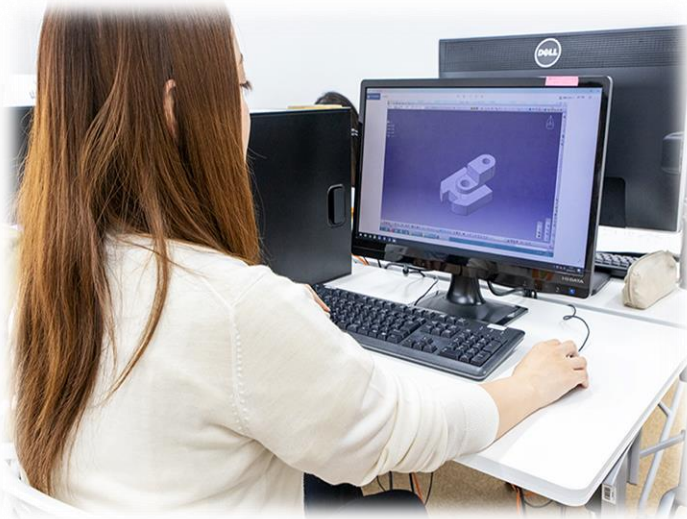
Expert
shortage



Output
instability

Solution

Human operator



 [∞]
Integral Technology
tech.

Automated



Clients list

Automobile
manufactures



Home
appliance maker

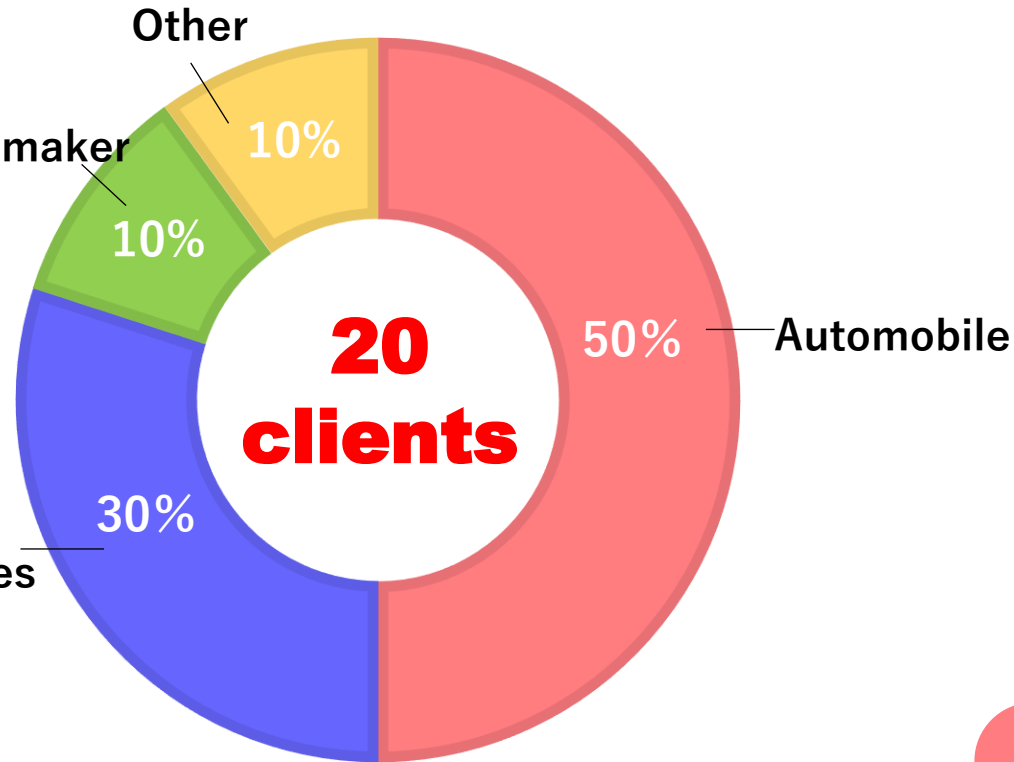
Other

Automobile
manufactures

Automobile

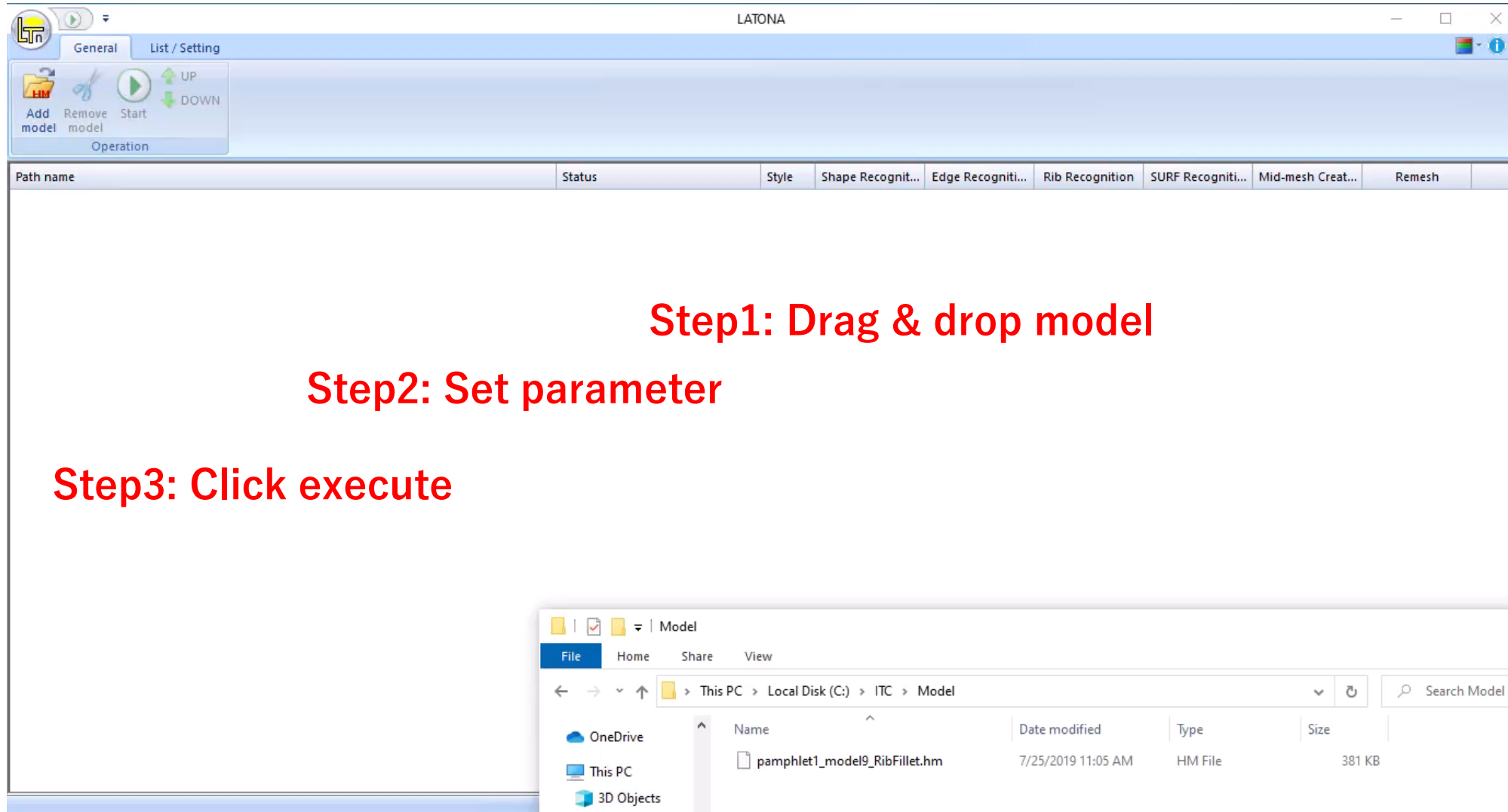


Marelli
TOYOTA BOSHOKU
AISHIN AW
Etc.,



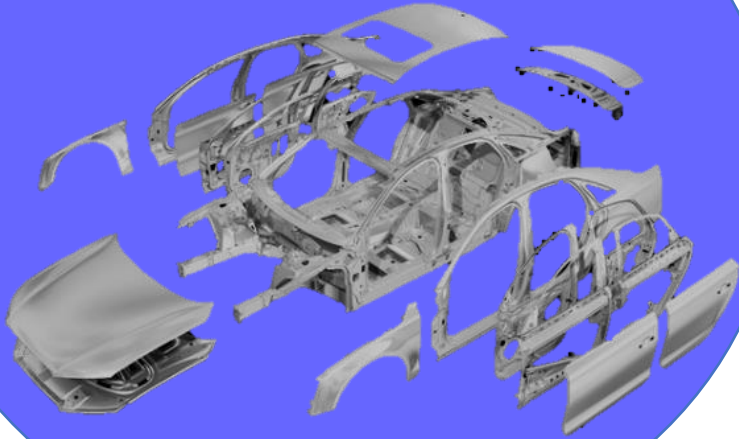
TOYOTA Motor
HONDA Motor
ISUZU Motors
Etc.,

Simple usability



Specialty

Body in white



4 human operators

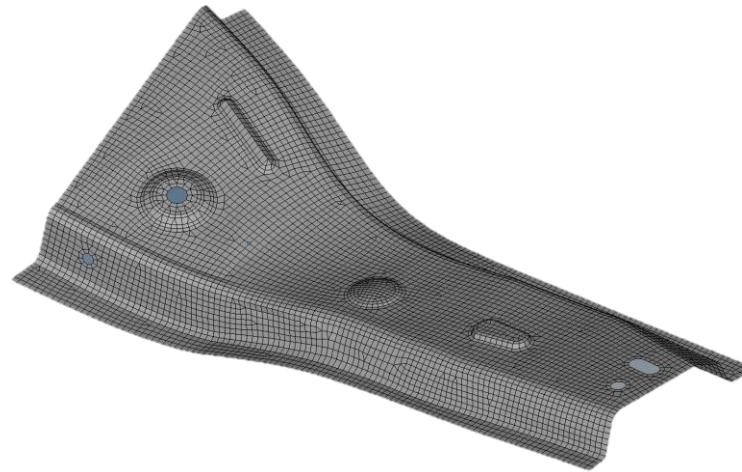


Hours

200

-180 Hours

ITC software



20

Specialty

4 operators



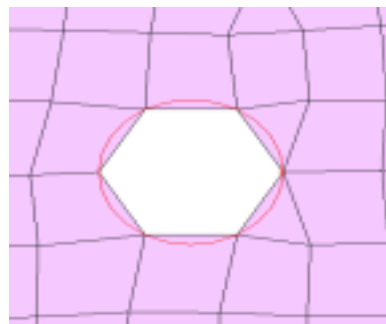
Check on **detailed quality** & **specific rules** applying for each shapes

Original output

ITC output

Bead

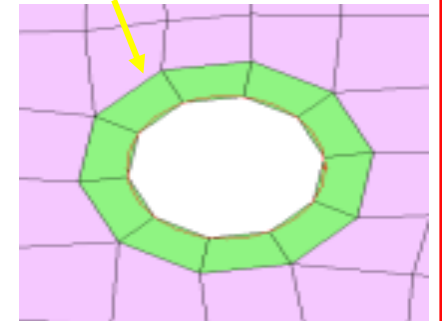
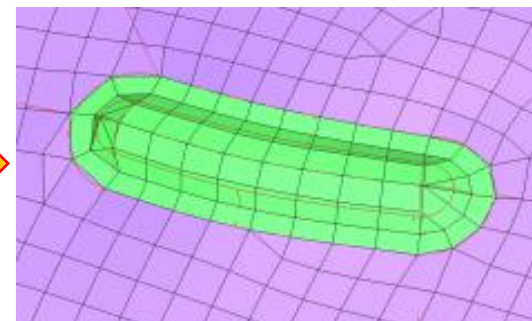
Hole



Modification

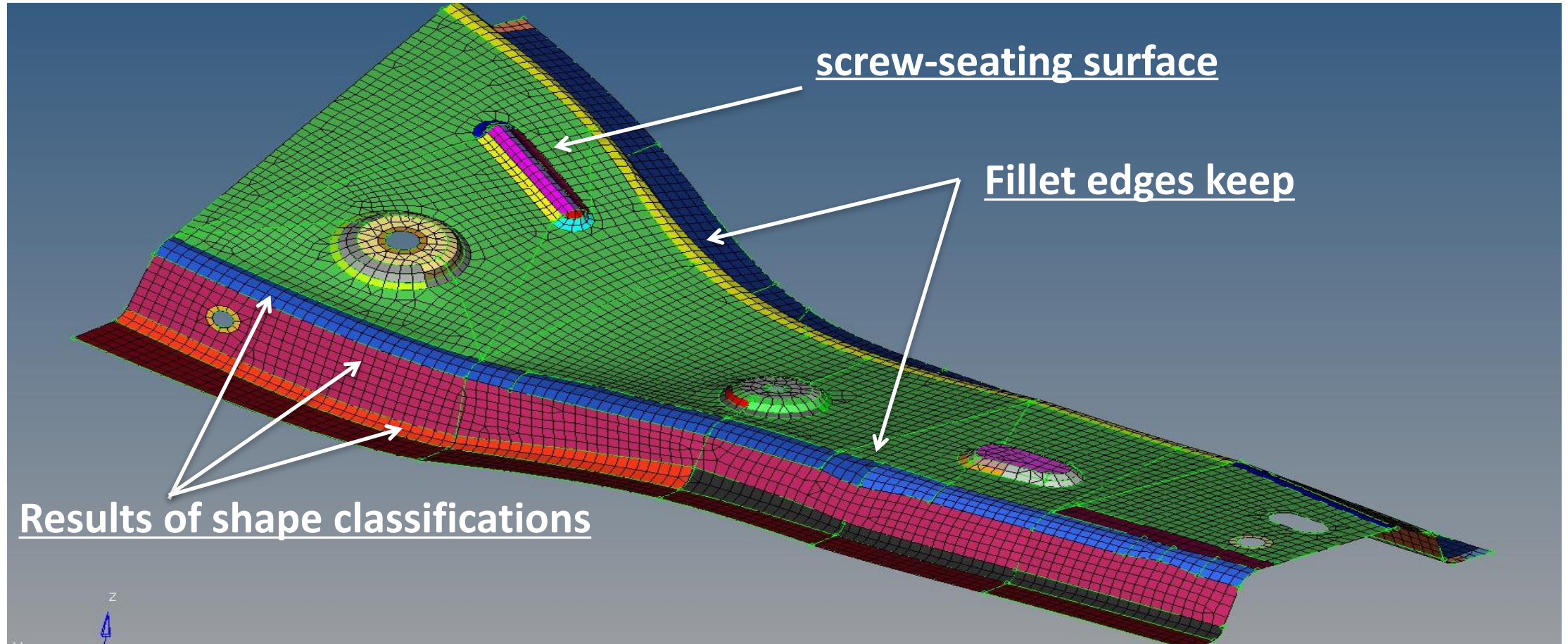
All quad

All quad



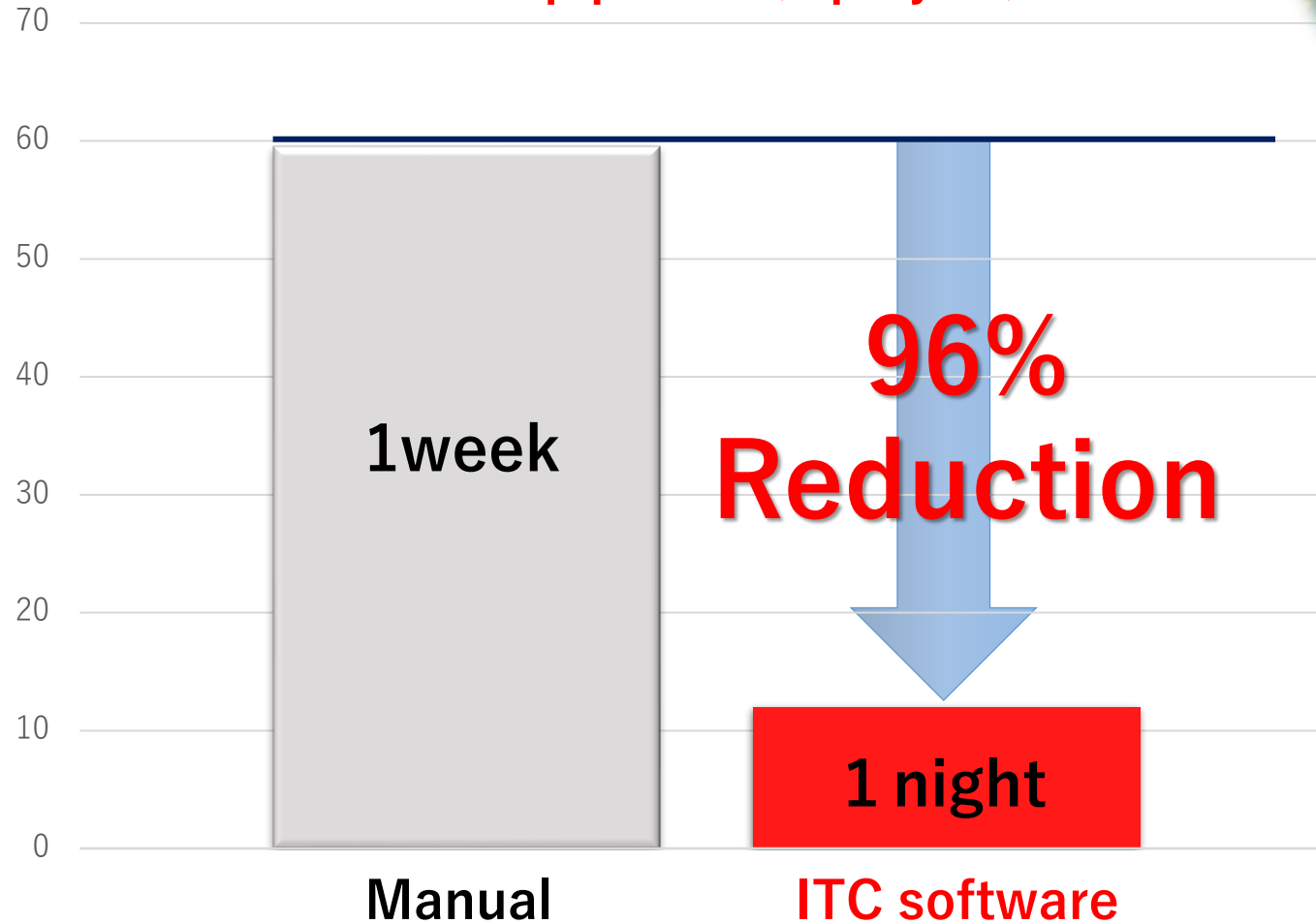
Specialty

Patented shape recognition technology

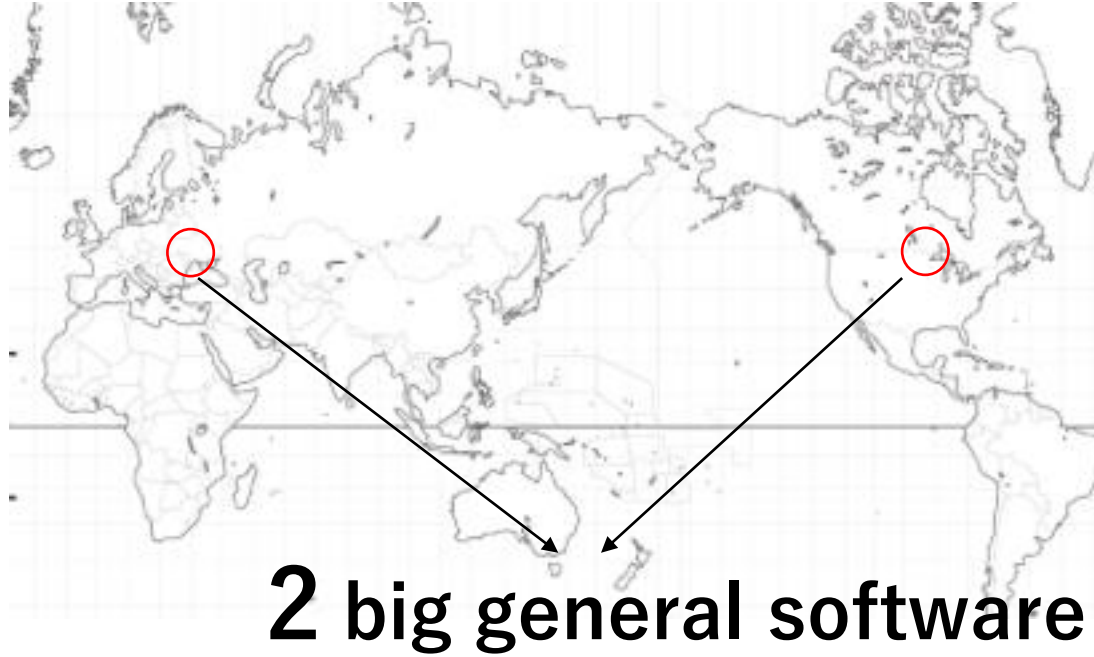


Success case

Transmission company
Develop period (1 project)



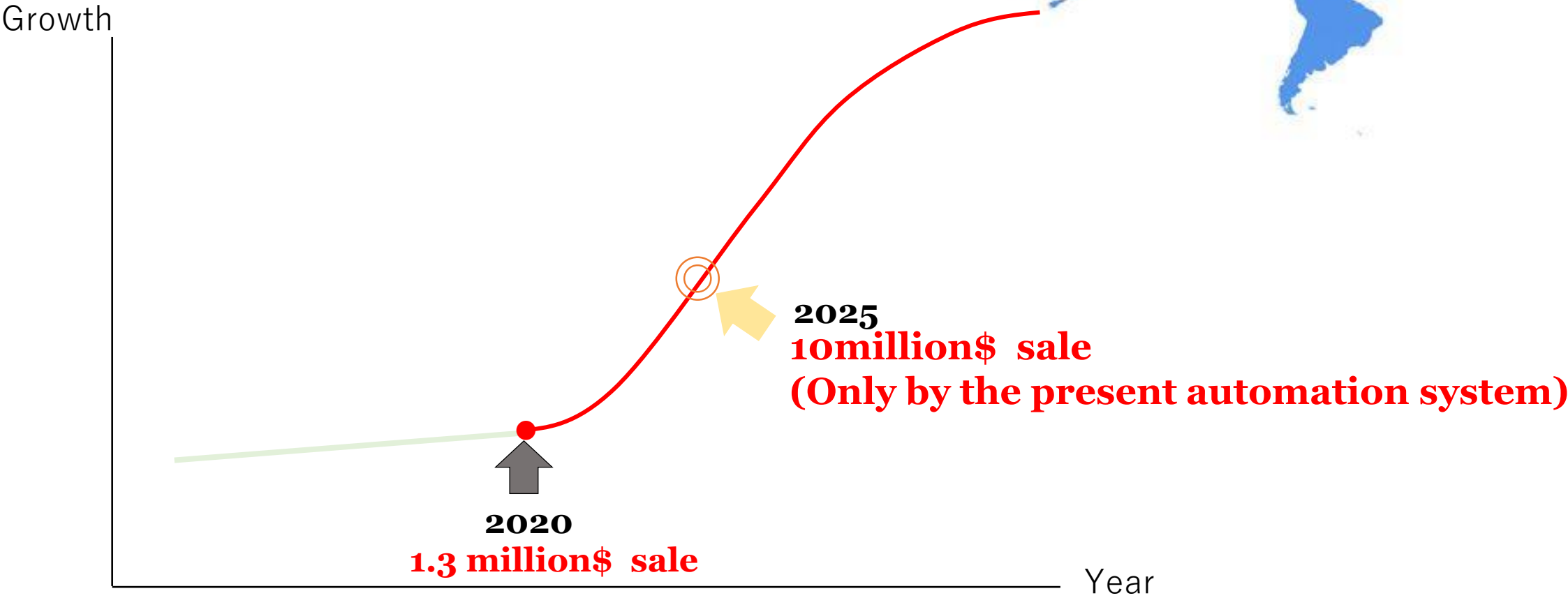
Competitive landscape



ITC unique
algorithm

Shape recognition
technology

Market expansion





Thank you



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