



Classification and Certification

how the shipping industry might have something to learn from the way other industries handle classification and certification, particularly in their use of technology

Hamburg 19th of October 2017

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FACTOR 01 GmbH

AGENDA

- Introduction
- Major Certification Trends
 - New certification areas
 - The impact of digitalization
- Examples of digital projects
- Discussion

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Introduction

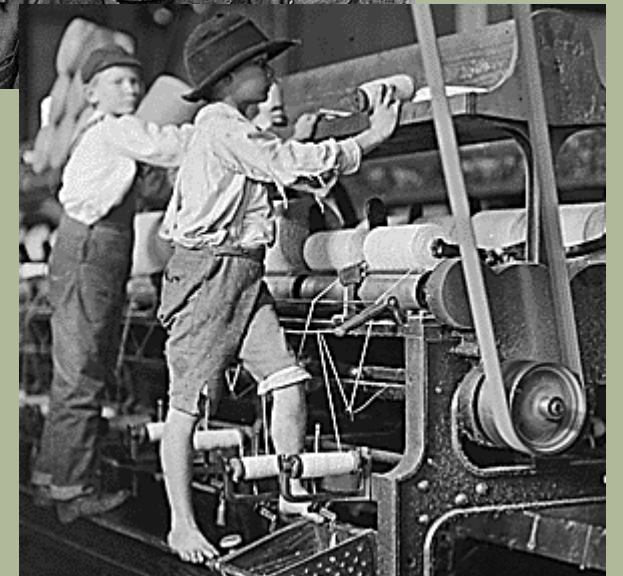
Major Certification Trends

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Examples of digital projects

Discussion

How third party inspection started...



Today...

Developed countries



New T.I.C. Services

- Energy efficiency
- Cyber Security
- ...

Emerging Markets



Traditional T.I.C. Services

Looking for differentiation in the T.I.C. Sector (Testing Inspection Certification)

Can I say:
I am testing better than my competitor?



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New testing, inspections and certification spheres



and it is still necessary...



because this is what you want to avoid...

The image is a collage of newspaper clippings, likely from The Guardian, featuring various headlines related to child labor and human rights. A large, red, jagged starburst graphic is superimposed over the center of the collage, with the text "Mass Media Watchdogs" written in bold black font inside it. The starburst has several points extending towards the edges of the collage, pointing to specific headlines.

Gap admits to child labour violations in outsource factories
The Guardian
David Teather in New York

FOOTBALL STAMPS STITCHED WITH HANDS: India, China and Child Labourers
Editions

Child labour

Mass Media Watchdogs

Adidas attacks for Asian 'sweatshops'
MEPs told of Dickensian conditions in Indonesia
The Guardian
Andrew Osborn in Brussels

US Companies, Monsanto Profit from Bonded Child Labor in India

Agro

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The digital transformation

April 8, 2005
during the funeral
of Pope John Paul II



March 13, 2013,
during the
presentation of
Pope Francisco, as
the new high priest
of the Catholic



New Competition



2004



Search

2017

Automotive



Energy



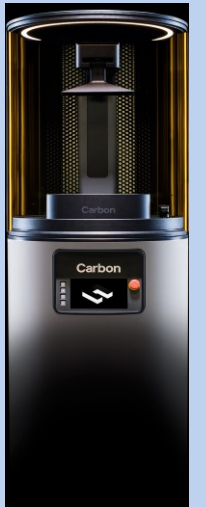
Telecommunication



Search

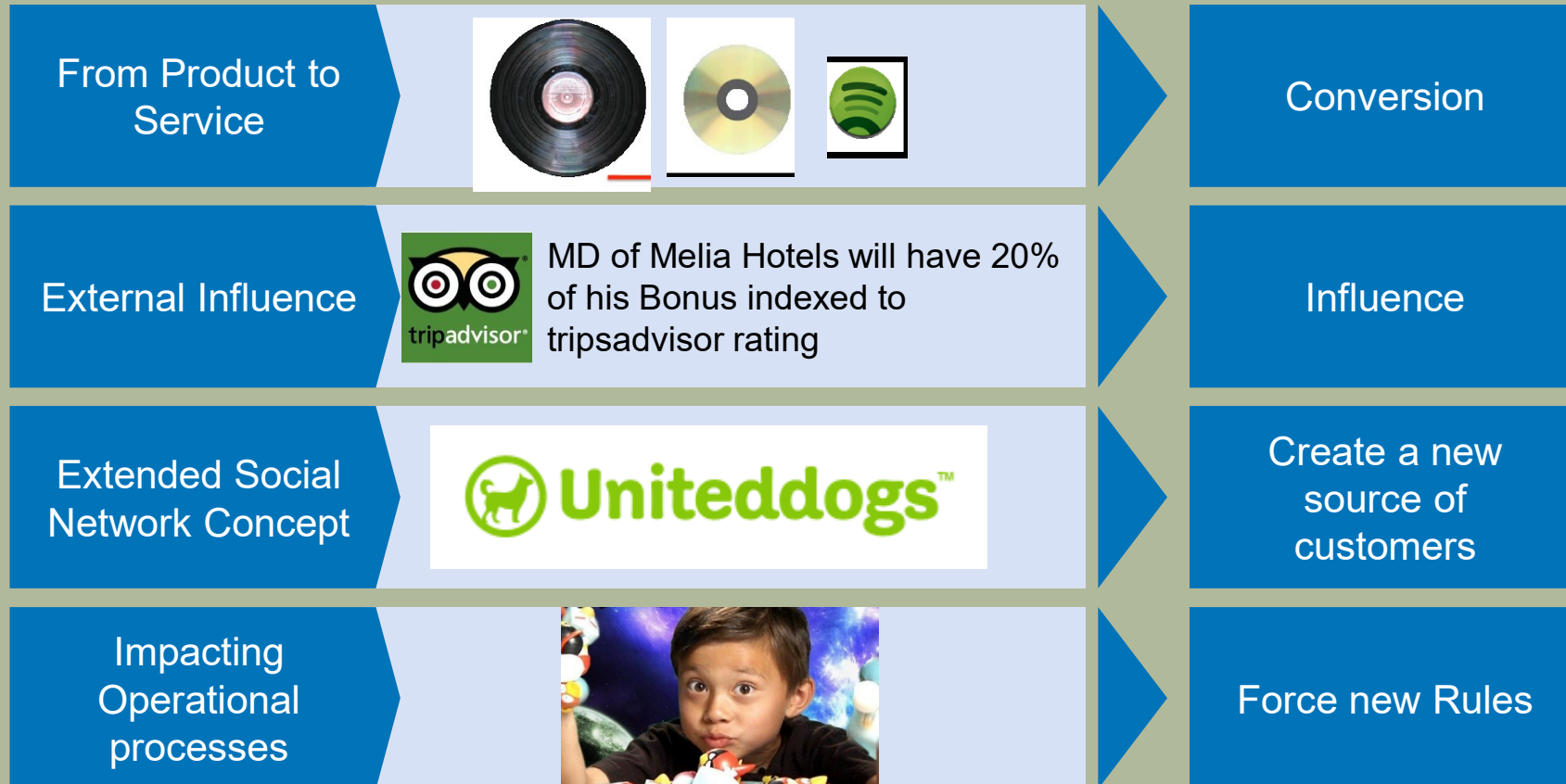


3D Printing

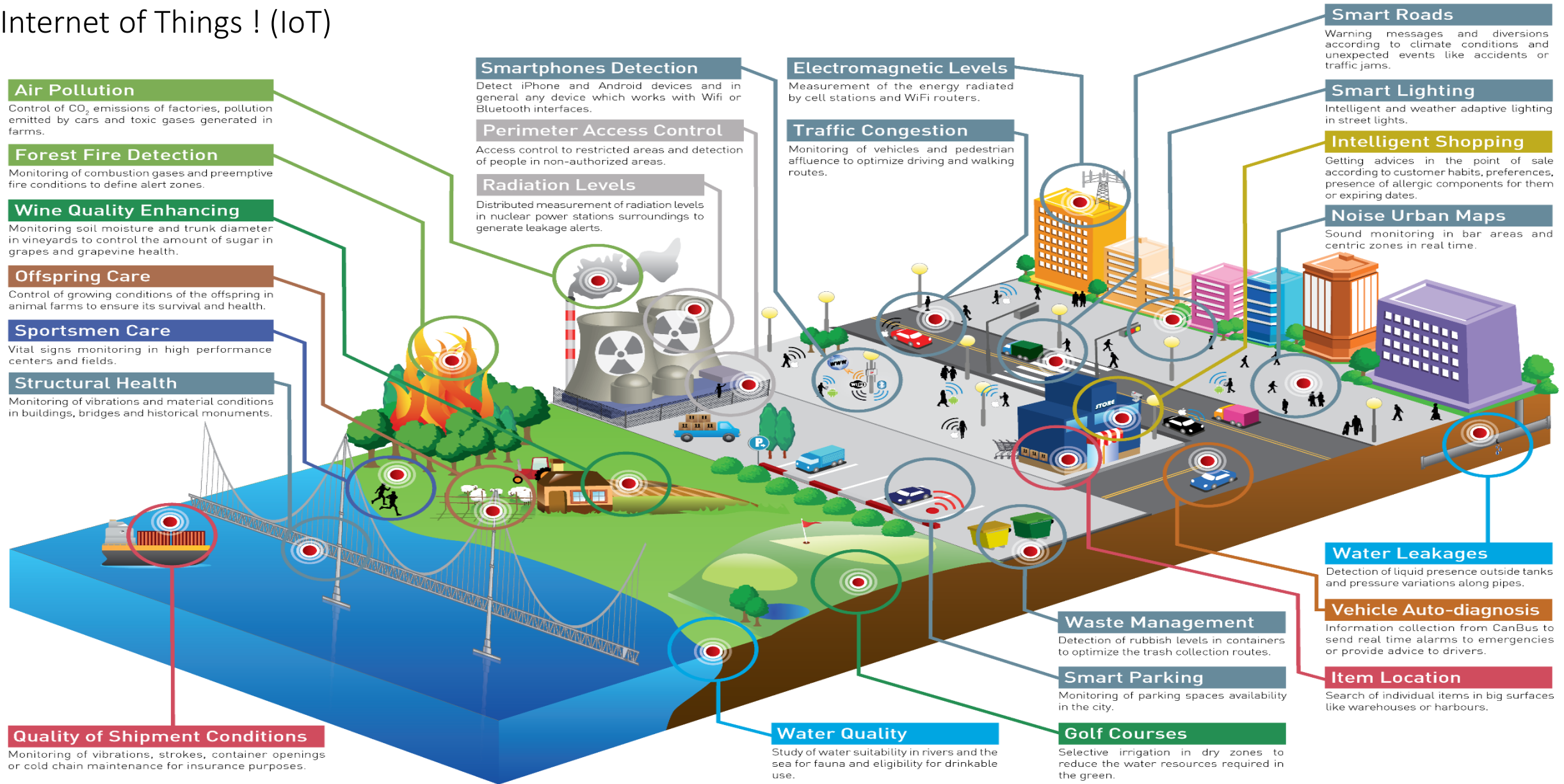


<https://www.gv.com/portfolio/>

Disruptive Technology



Internet of Things ! (IoT)



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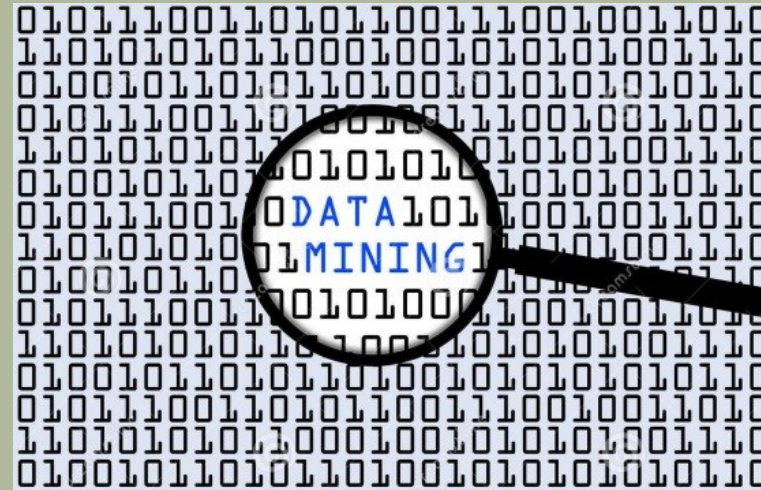
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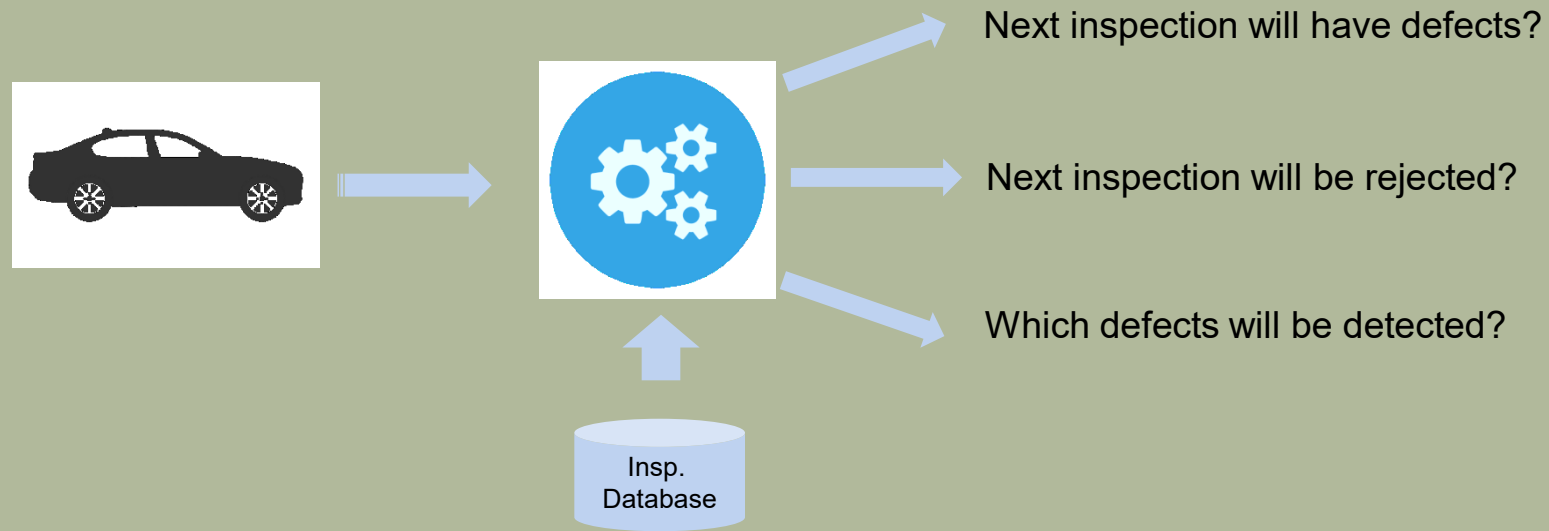
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Data Mining with artificial Intelligence (A.I.)

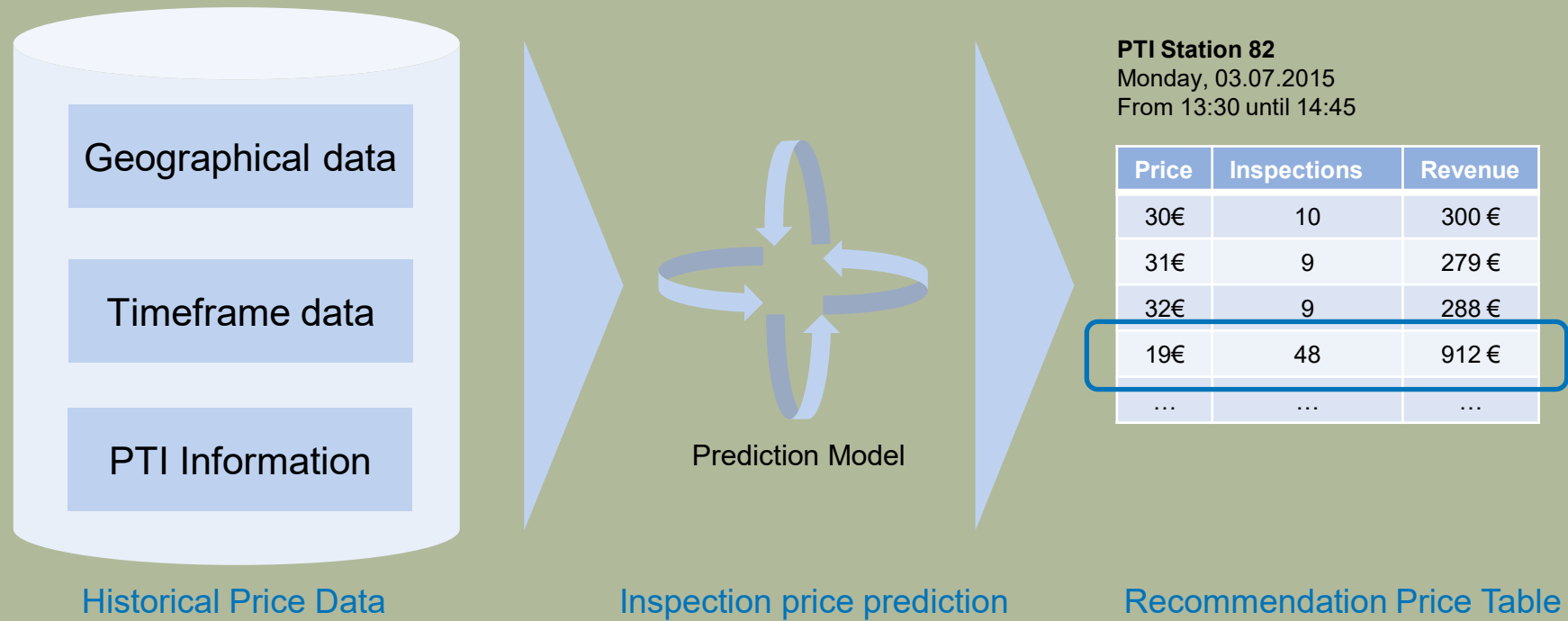


Data Mining allows for the
“understanding” of heterogeneous test report data,
regardless of the degree of content structure or form.

Predictive Engines



Smart Pricing



Crowd Testing

Combination of the results of crowd testing with the results of expert testing

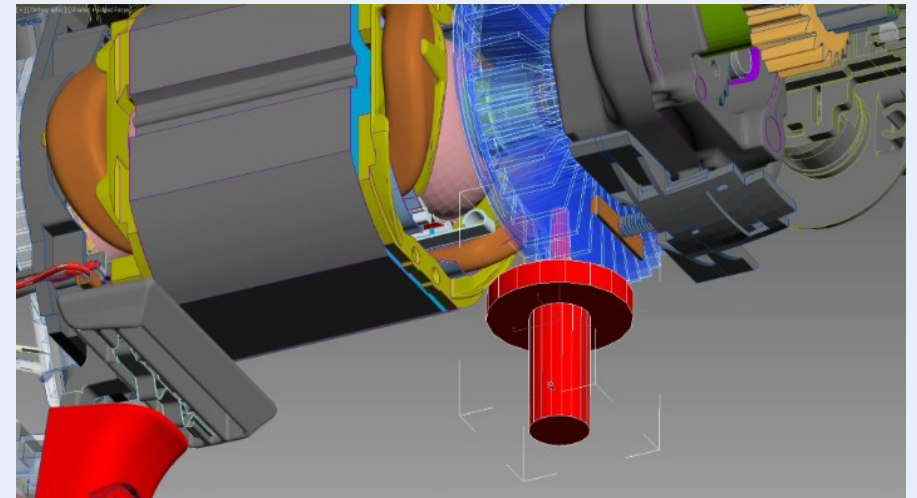


Simulation of working conditions



Virtual Testing

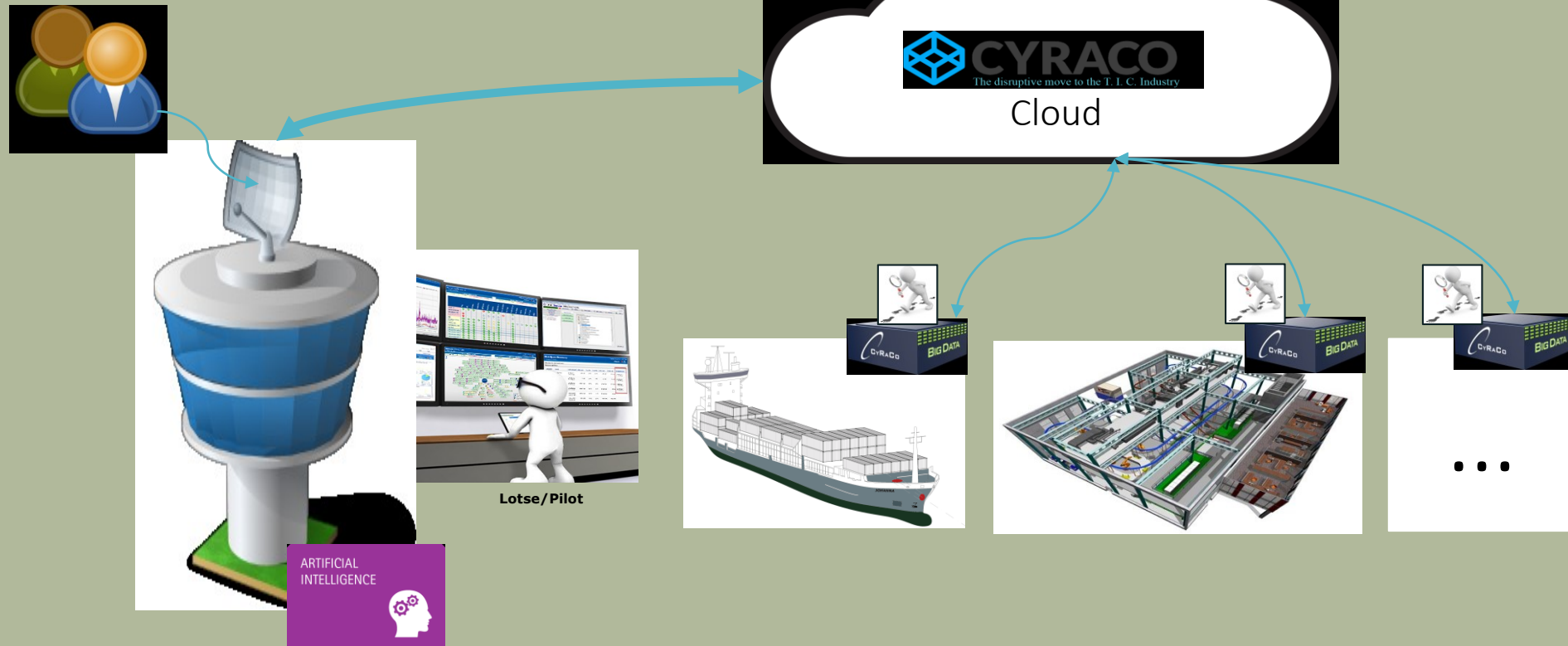
Verification on measurements, material, handling and safety, based on client's CAD-Files instead of physical and expensive prototypes allow an early detection of failures during the development process !



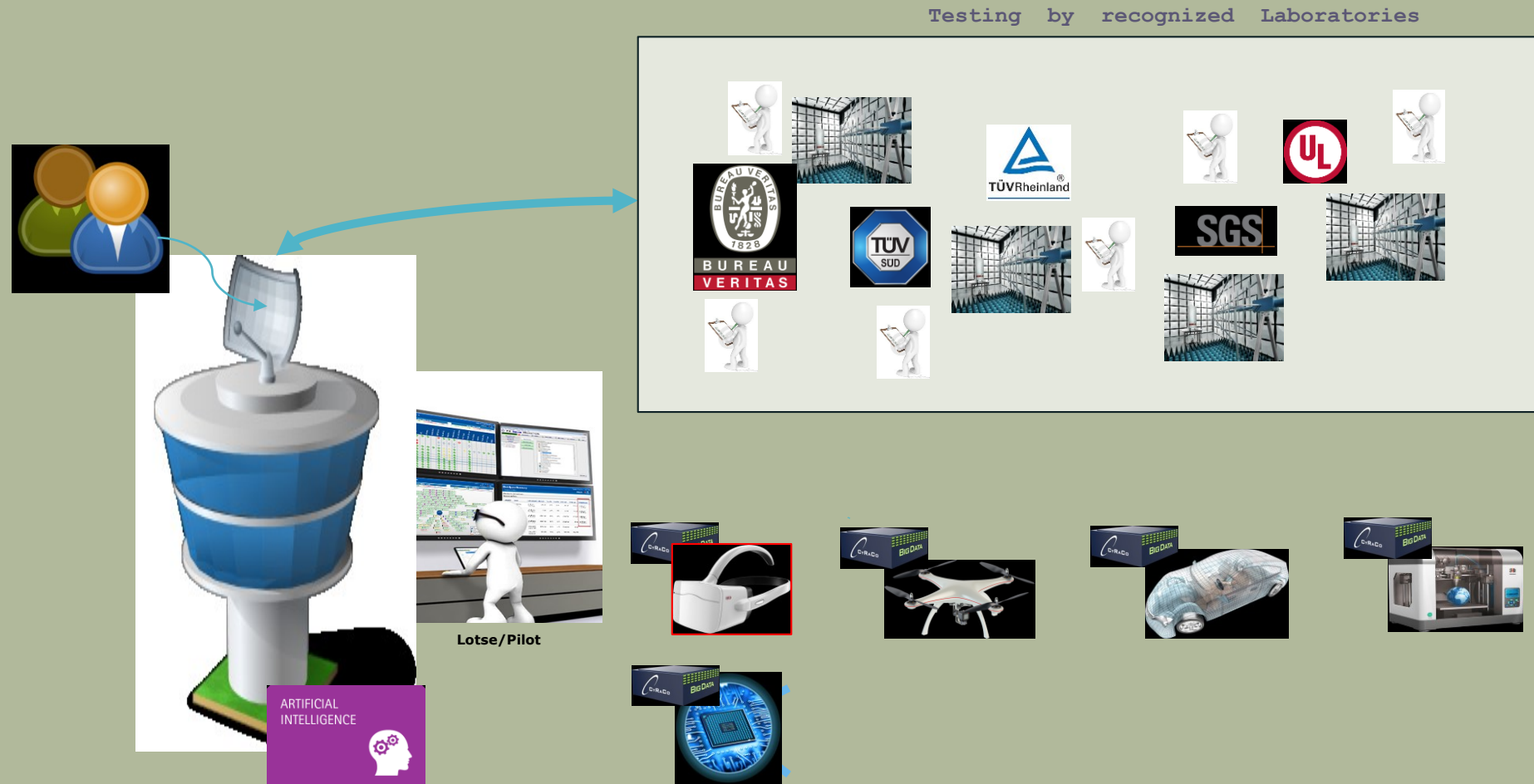
Remote Inspection

CyRaCo: Tower-Concept

Lotse / Pilot:
Product Lifecycle Controller (PLC)



Inspection Certification Portal



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Goldgräberstimmung – In the mood of the gold digger





THANK YOU