



**Visions of
Tomorrow**

**Engineered
Today**

Elomatic Industrial XR Solutions

Jaakko Mattila

Virtual Twin

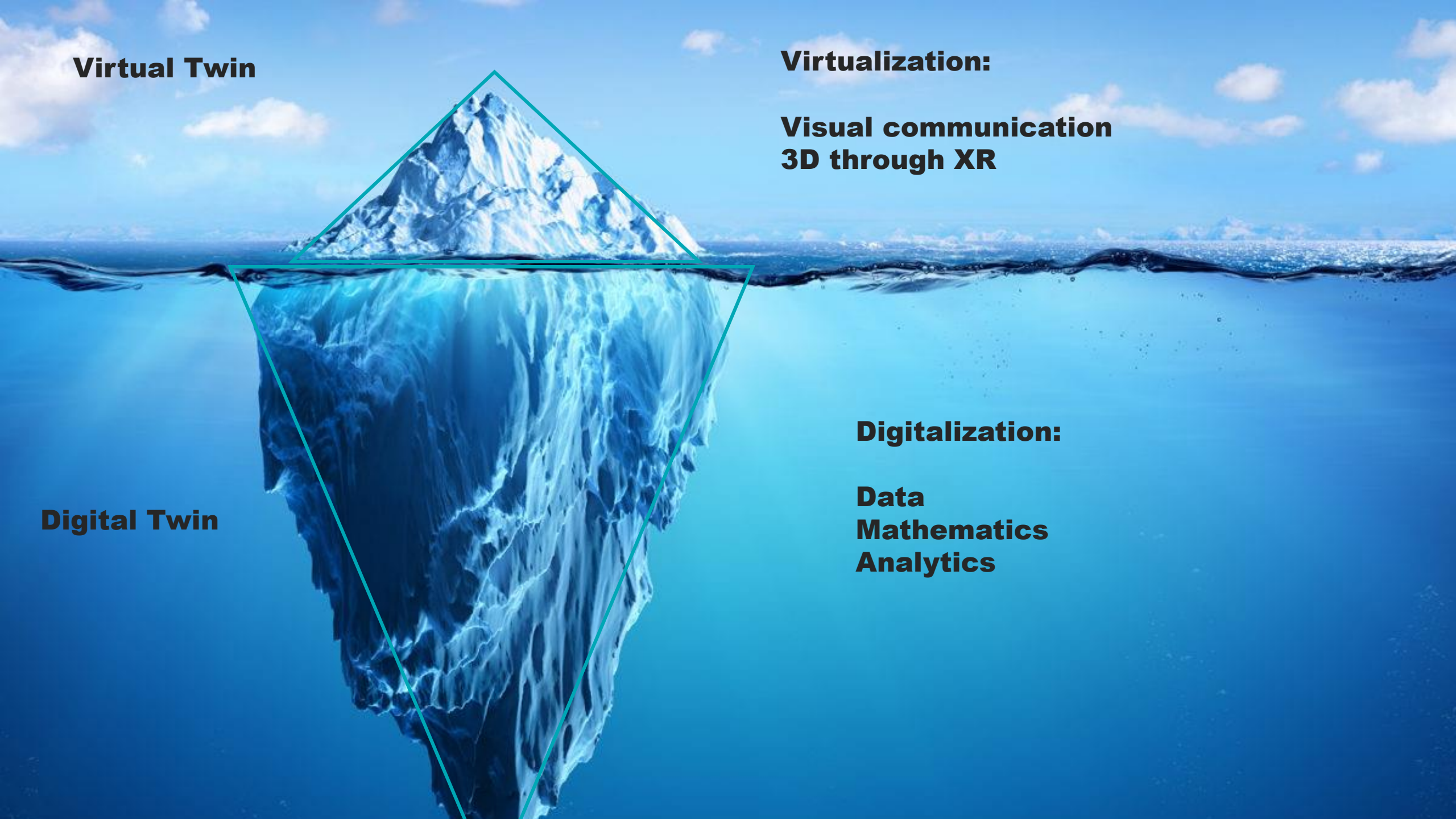
Virtualization:

**Visual communication
3D through XR**

Digital Twin

Digitalization:

**Data
Mathematics
Analytics**



Worldwide Elomatic corporation.

01 Founded by Ari Elo in 1970

Pioneers in 3D CAD design

02 Broad industry knowledge, expertise and solutions

Industrial planning

Technical consulting

Engineer design

Broad expertise in industrial fields.



Chemicals, Food, & Biomass



Energy Production & Distribution



Pharmaceuticals



Machinery & Equipment



Marine



Offshore



ELOMATIC VISUALIZATION SERVICES

We offer **technical 3D visualization** and **XR solutions** to support enterprise communications, decision-making and training.



A team of
24 + 1100
at your service.

Technical visualization to support your whole process.



DEVELOPMENT PROTOTYPES & MOCKUPS

Optimizing product development and decreasing the need for physical prototypes with virtual testing



PRODUCT PRESENTATIONS & LAUNCHES

Generating interest and supporting decision-making with superior and easily understandable content



TRAINING MATERIALS AND ENVIRONMENTS

Working safely and accurately by practising procedures and usage with memorable content and virtual environments

Limitless potential
when engineering and
visualization are
under one roof.



SECURITY



CONTENT
SOURCES



TECHNICAL
KNOWLEDGE



PRESENTATION
TECHNOLOGY



Industrial Digitalization

Industrial Digitalization

01 Monitor, analyze, act

02 Improved operations

Avoiding errors, predictive maintenance, more control

Improved quality and resource efficiency, sustainable processes

Connectivity, access to information, informed decisions



Industrial Virtualization

Valmet interactive VR training environment.



Valmet

MAIN MAP
OCC
STO & AFS
VR TRAINING
FEATURES

MACHINE LEVEL

1. WET END
2. SIZER
3. FINISHING
4. CALENDERING DRIVE SIDE
5. PRESS SECTION DRIVE SIDE
6. APPROACH FLOW
7. OCC PULPING
8. THICKENING
9. OCC SCREENING

BASEMENT

10. PM19 FILTRATE TANKS
11. OCC FILTRATE TANKS
12. BALE HANDLING BASEMENT
13. BHKP REFINERS
14. APPROACH FLOW BASEMENT
15. PRESS SECTION BASEMENT
16. STARCH STORAGES
17. PULPER

Valmet and Elomatic ViSU overcoming obstacles.

“Elomatic ViSU is our trust-worthy partner for visualization projects. They have helped us solve challenging situations with their technical knowledge and their same drive for success and innovation like we do at Valmet. The co-operation between the rest of Elomatic and Elomatic ViSU makes it easy for us to get all that we need from one place.”



Kaisamaija Marttila

Marketing Manager
Valmet Oyj

Industrial Virtualization

01 Contextualizing information

through virtual 3D models

02 Shared understanding

between monitoring and field service / planning and operations

Industrial Virtualization

03 Application areas

Planning, design, training, assembly, maintenance, operations...

Benefits: less errors, improved training, faster time to market...

04 Different technologies and models

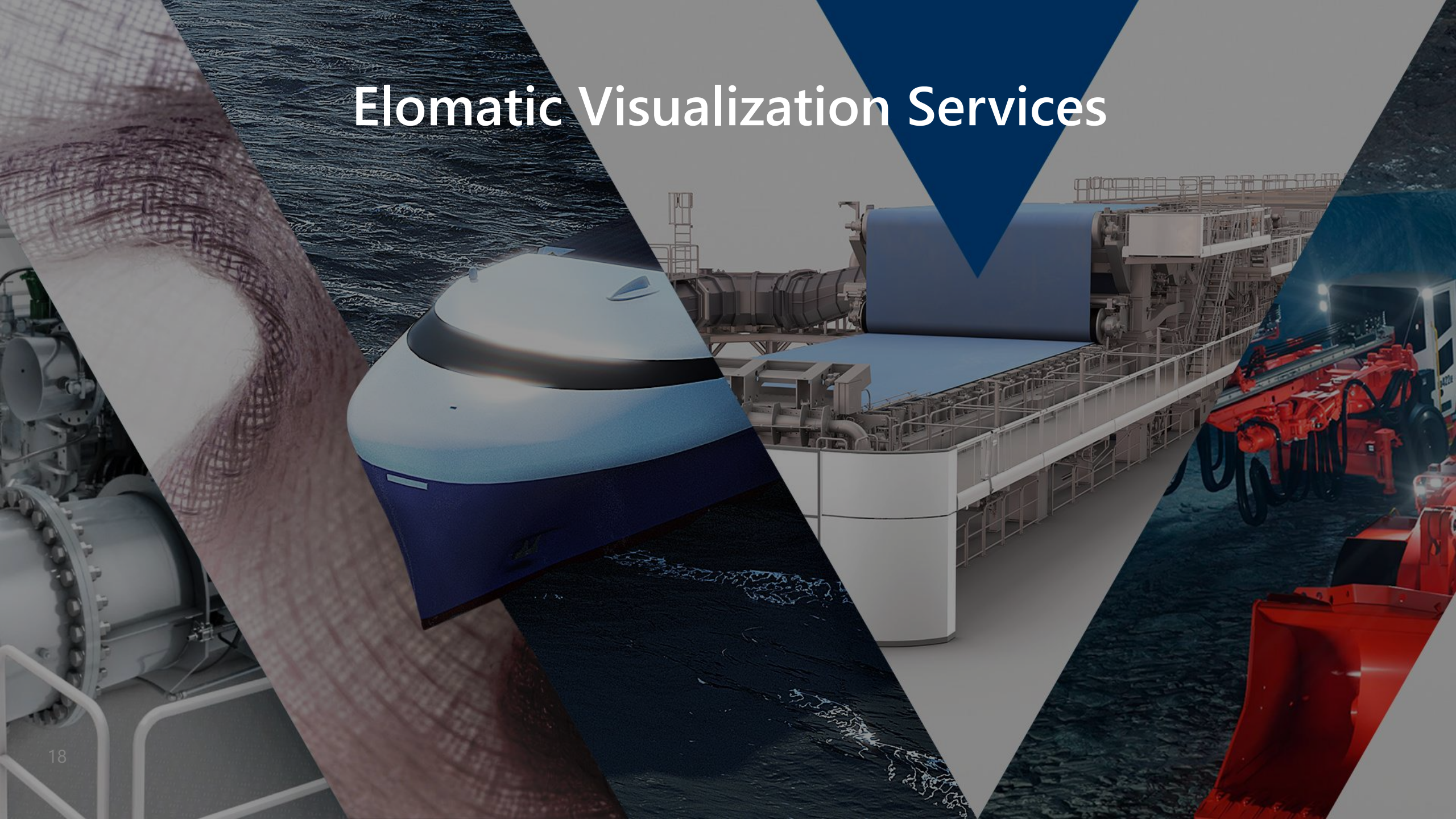
Tech: VR, AR, mobile, web, desktop

Models: static, lite, training, virtual twin

Elomatic ViSU Virtual Pipeline

Cost efficient model processing

Elomatic Visualization Services





Elomatic + Devecro = intelligent virtual prototype.

A journey towards a real virtual twin

- 01 Physics-based and visual
- 02 One virtual model for multiple needs
- 03 Fast and cost-efficient implementation



User-centered design
with Virtual Mockups.

01 Cost-efficient

02 Time saver

03 Versatile

04 Added value



Valmet Virtual Mill

01 Immersive training

02 Creating context

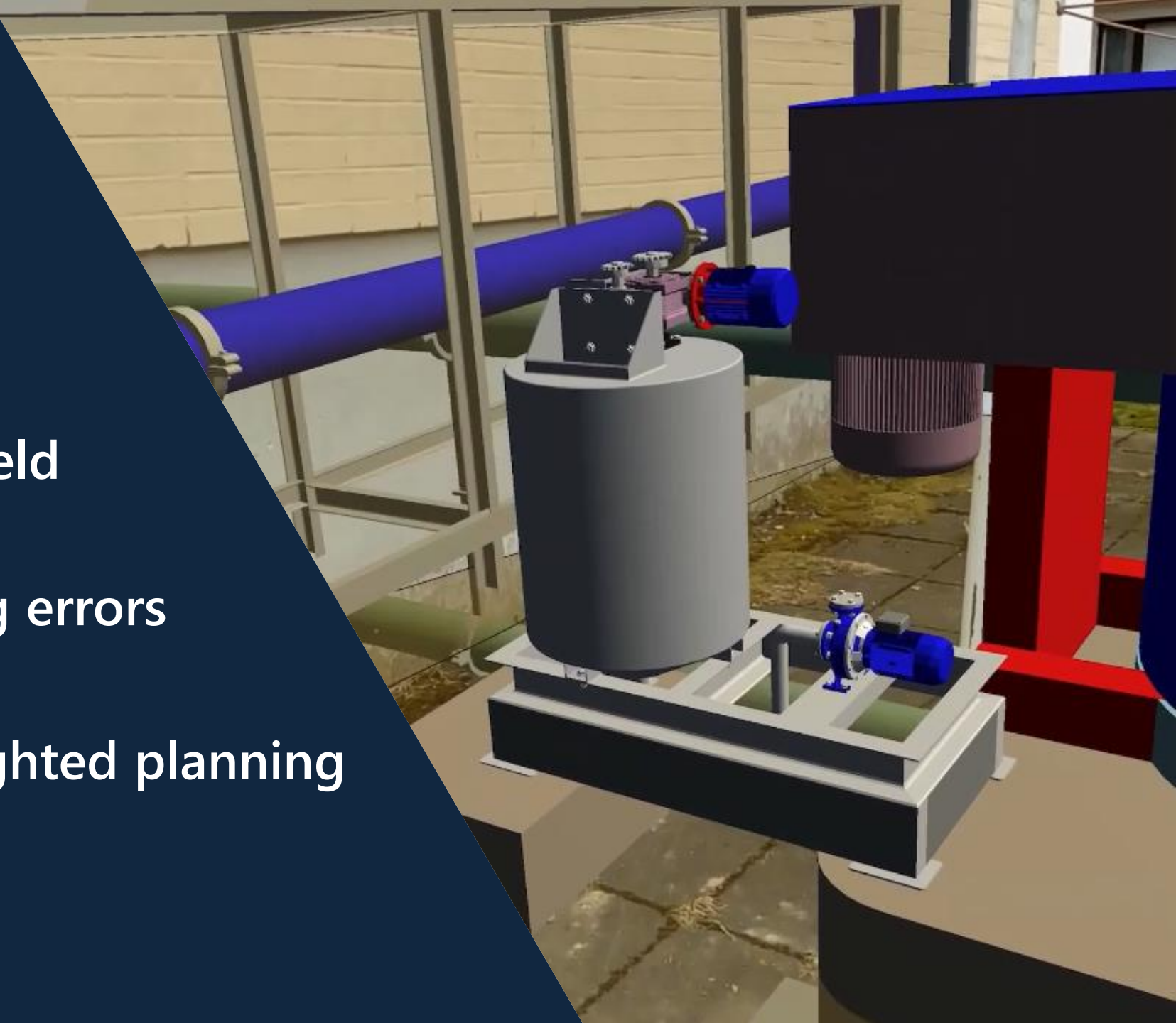
03 Multiple application areas

ViSU AR

01 3D on the field

02 Avoiding errors

03 Farsighted planning



To be continued...

**When it's time to face the future,
face it with Elomatic.**

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Let's connect on LinkedIn!

www.elomatic.com

Thank you!

