

Interreg



Co-funded by
the European Union

Italy – Croatia

 **DIGITPORTS**

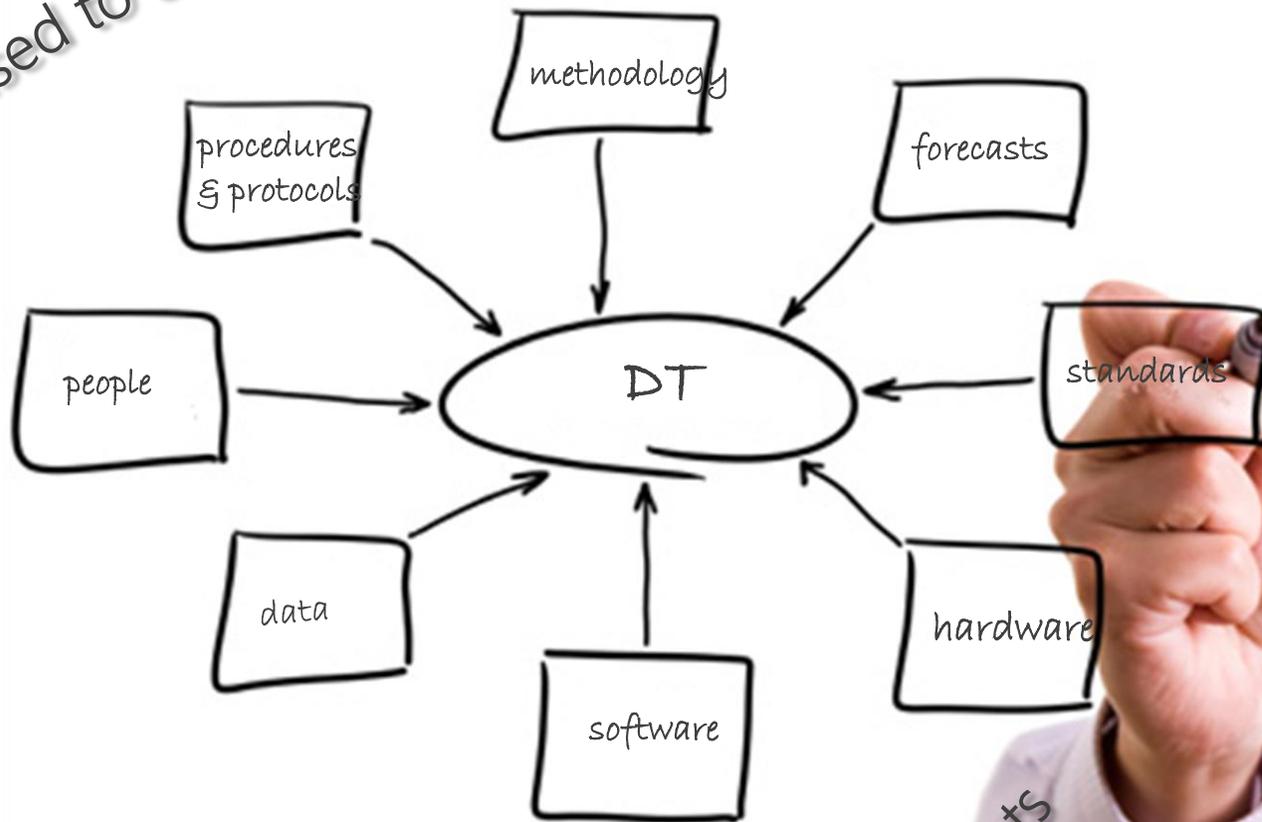
Dražen Vrhovski

High Level Training on Digital Twin applications in Port ecosystems
Venice, 28th Jan 2025

www.italy-croatia.eu

DT as an integrative element

...which are used to define...



components



DT as a stakeholder integration element

Port Authority

- Security
- Charting
- Managing natural resources
- Standardisation

Concessionnaire

- Business efficiency
- Real-world applicability & validation
- Revenue potential



Community

- Publicly available data
- 3rd party applications
- Environmental concerns



Typical challenges

- DT system **ownership**
 - Business process management responsibility
 - Revenue potencial → data ownership, IPR...
 - Output integrity
- **People**
 - Staffing
 - Outsourcing
- Financing
 - Implementation and maintenance
 - Budgeting
- Wider area **applicability**
 - Standardisation (processes, components and outputs)
 - **Scalability** and unification
 - Implementation and operationalisation framework/strategy



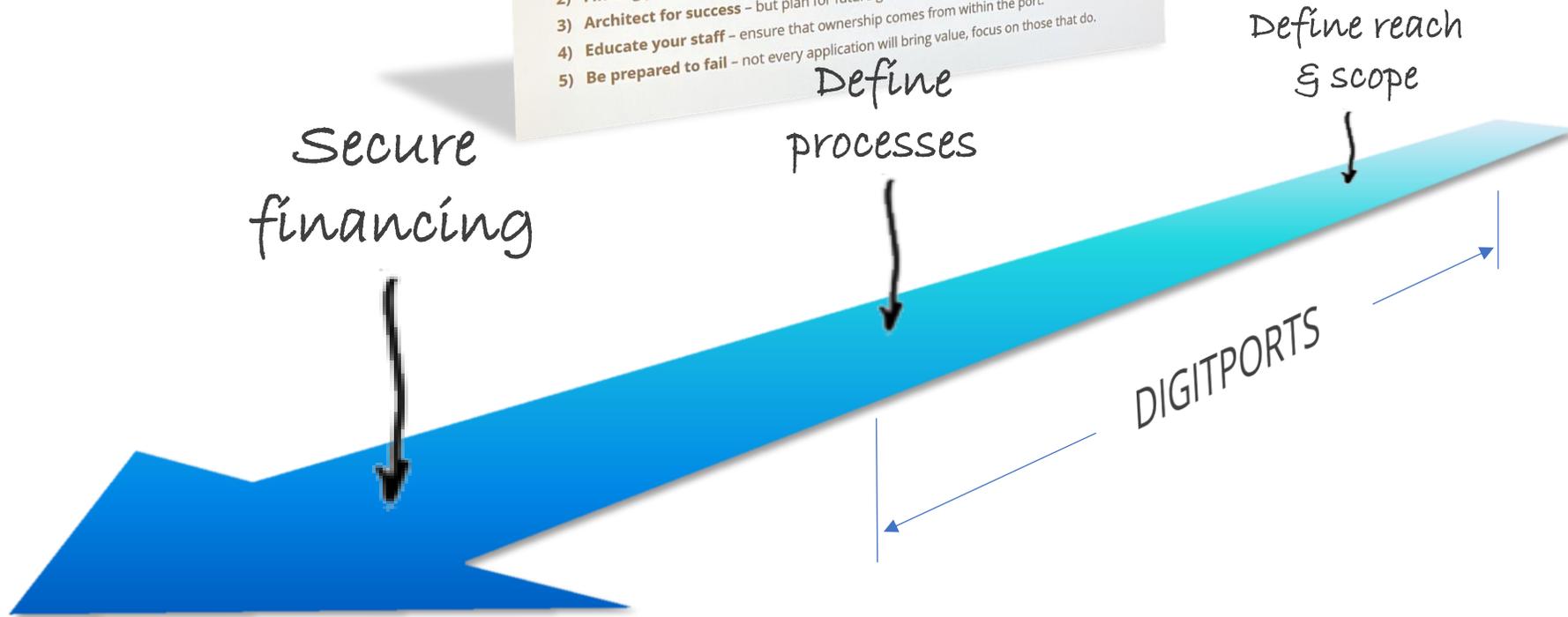


Interreg Co-funded by the European Union
Italy - Croatia
DIGITPORTS

Digital Twin: Getting Started

- 1) **Identify changemakers** - know who can influence, own, and make decisions. Execute a plan.
- 2) **Finding your starting point** - build a GIS, a database, and a portal for users to access the DT.
- 3) **Architect for success** - but plan for future growth. Start small, but think big.
- 4) **Educate your staff** - ensure that ownership comes from within the port.
- 5) **Be prepared to fail** - not every application will bring value, focus on those that do.

Way forward



Interreg



Co-funded by
the European Union

Italy – Croatia

 **DIGITPORTS**

Contacts

Dražen Vrhovski, EERING Consultancy



Zagreb, Croatia



drazen.vrhovski@eering.hr



+385 91 3691571



<https://www.italy-croatia.eu/it/web/cresport>