

Existing Roles & DT Technology

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Topics

Scope of presentation

- DT lifecycle stages - *the 'joined-up' approach*
- Relevance of V&V - *Validation (doing the right thing – requirements' coverage)
& Verification (doing things right – build what's required)*
- Implementation - *how it can be achieved*
- Other Sources - *where to find more information*
- Summary

Scope

This is a 'helicopter-up' view of how DT technology can be approached by utilising a company's existing skill-base.

What it is:

- A look at commonality with existing company practices, rather than what is different.

What it is not:

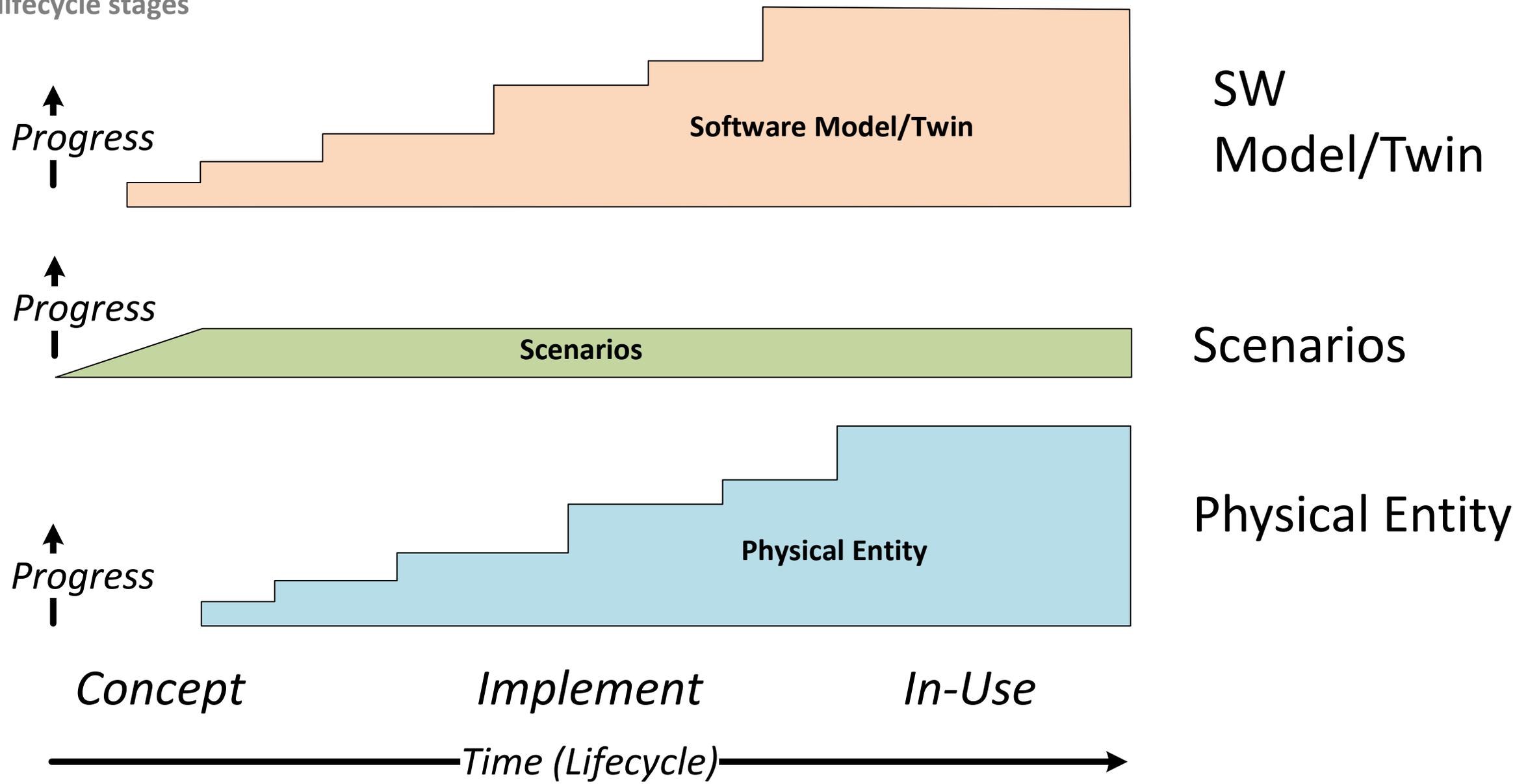
- A magic tool or service to make something easier.

Intention:

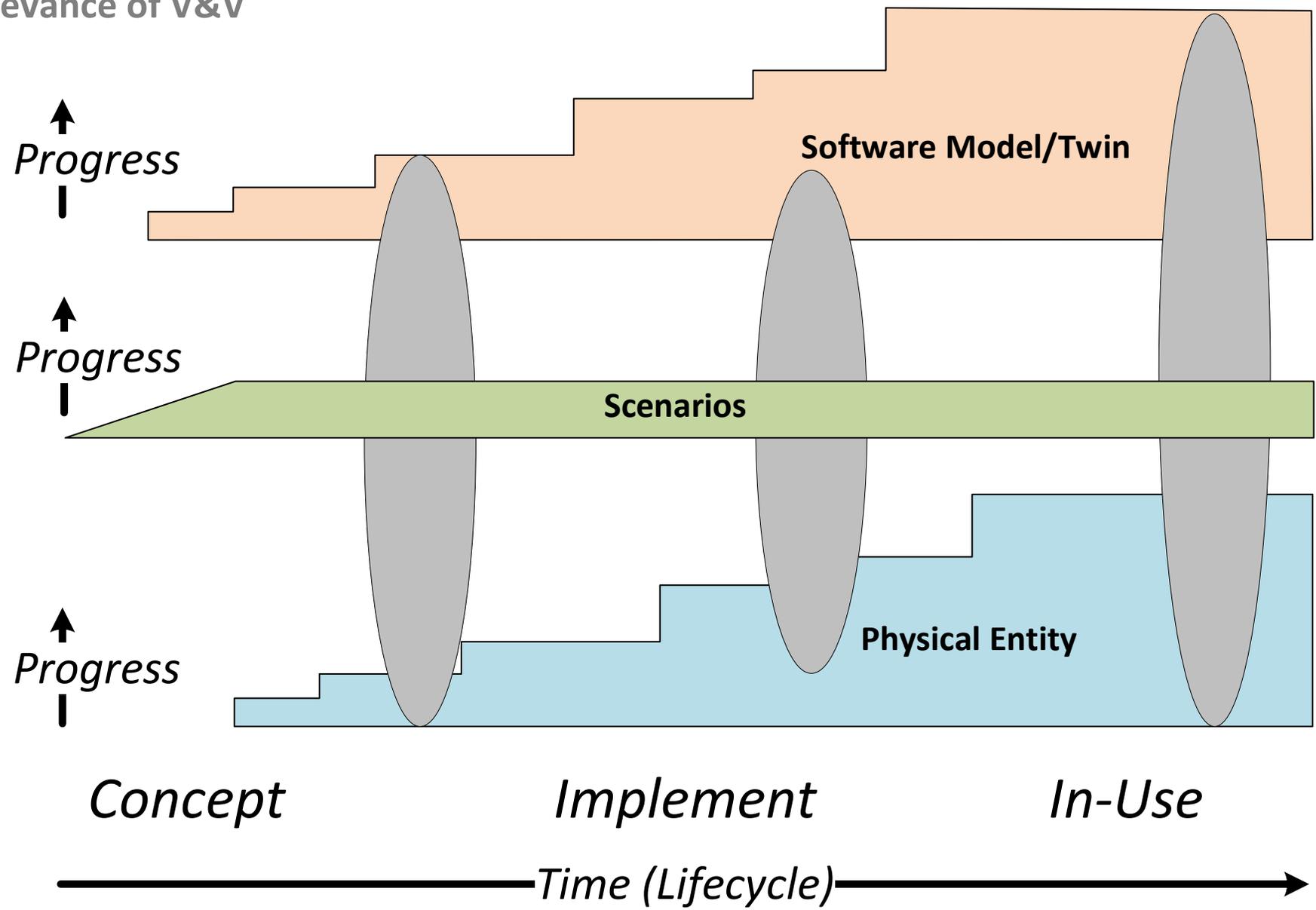
- To stimulate wider thinking & debate about implementing DT technology.

Lifecycle Benefits of Digital Twin Technology

DT lifecycle stages



Relevance of V&V



Scenarios should run as expected with any mix of modules from the model or the physical entity.

Implementing it – Expanding the role of Test Engineers'

- This scenario-dependency creates the opportunity for Test Engineers to be deeply involved throughout the lifecycle to:
 - ◆ *Run scenarios, record test results and check for discrepancies.*
 - ◆ *Communicate with all stakeholders to collect and document perceptions, objectives, timescales and progress etc.*
- This is valuable project management information and can facilitate fast response to issues arising (*minimising costs*).
- *Not only is it valuable to the project, it enhances the role of Test Engineers - with minimal additional training.*

Some Other Information Sources

- **DT Hub** has published wider-ranging documents about DT Skills – notably:
 - **Skills & Capability** *Framework and Capabilities.*
 - **Defence Digital Network** *Thoughts re Skills for Dig Transformation.*
- **IET** (Institute of Engineering & Technology) has, for some time, been promoting the role and image of Test Engineers.
- **ITEA** (International Test & Evaluation Assoc. - UK) is considering an in-depth review in this area.

Summary

- DT Technology does not necessarily mean big change – ‘tweaking’ existing roles is a good way to start a cost-effective implementation.
- To stimulate wider thinking and the debate:
 - *What roles in your organisation could be extended in a similar way?*
- Please share your thoughts by contributing to the debate on the [DT Hub’s website](#) (e.g. [Defence Digital Network](#) and elsewhere).
 - A more in-depth presentation can be found here:

<https://digitaltwinhub.co.uk/forums/forum/95-documents/>

Thank you for your time and attention....

Please ask, or contact me, if you have any questions:

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