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IVVQ in PLE: a quick win?

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Product Line Engineering stakes

Maximize return on investment (ROI) by **reusing** a maximum of engineering assets



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SIMILARITY : The fundamental principle of product lines



... but reusing tests assets its not so obvious, similarity studies are more Complex THALES

What are the issues with building and reuse the product test assets?

> Building in product

Because of the variability, the combinatorial explosion of valid potential configurations implies

- that it is not realistic to test all configuration in the context of the product,
- > and most of them will never become real projects sold

Reuse in project

Even if test assets are available from a previous sold project configuration, quite close to a new one, is it pertinent to reuse them ?



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Considering the type of IVV assets for reuse by similarity









What about your product and project IVVQ strategies?

In each column corresponding to a testing level, put a sticker to indicate the ratio of the testing effort you (would) typically apply on the product (compared to the project):



Product/Project ratio of the testing effort

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Real example





Typical effort distribution between product and projects













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