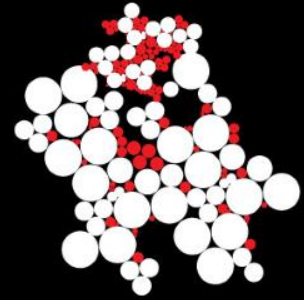


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A3 Architecture Overviews (A3AO) Goal, History, Adjacent Research

Maarten Bonnema



The Goal of A3AO's

Tacit knowledge versus **Explicit** knowledge

- **Explicit:**

Well handled by many (formal) models

- **Tacit:**

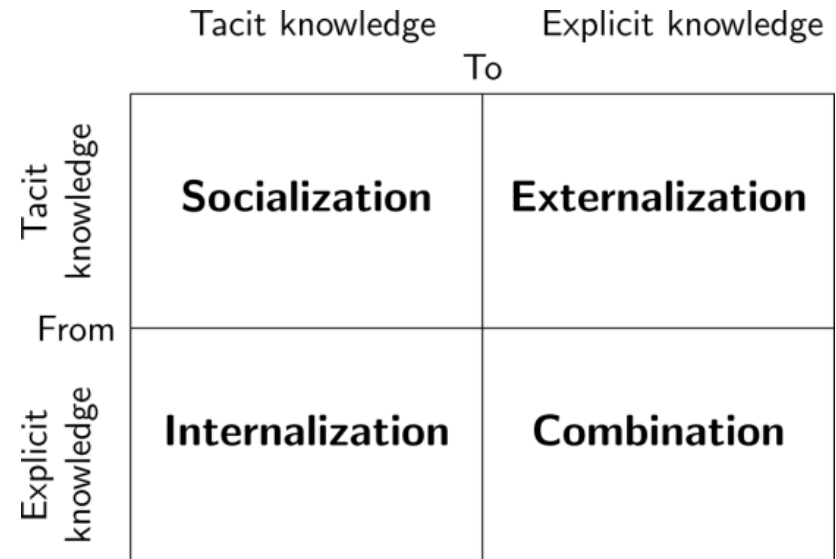
By definition not well handled by (formal) models

In the context of complex systems architecting

With A3AO's, we Create Knowledge!

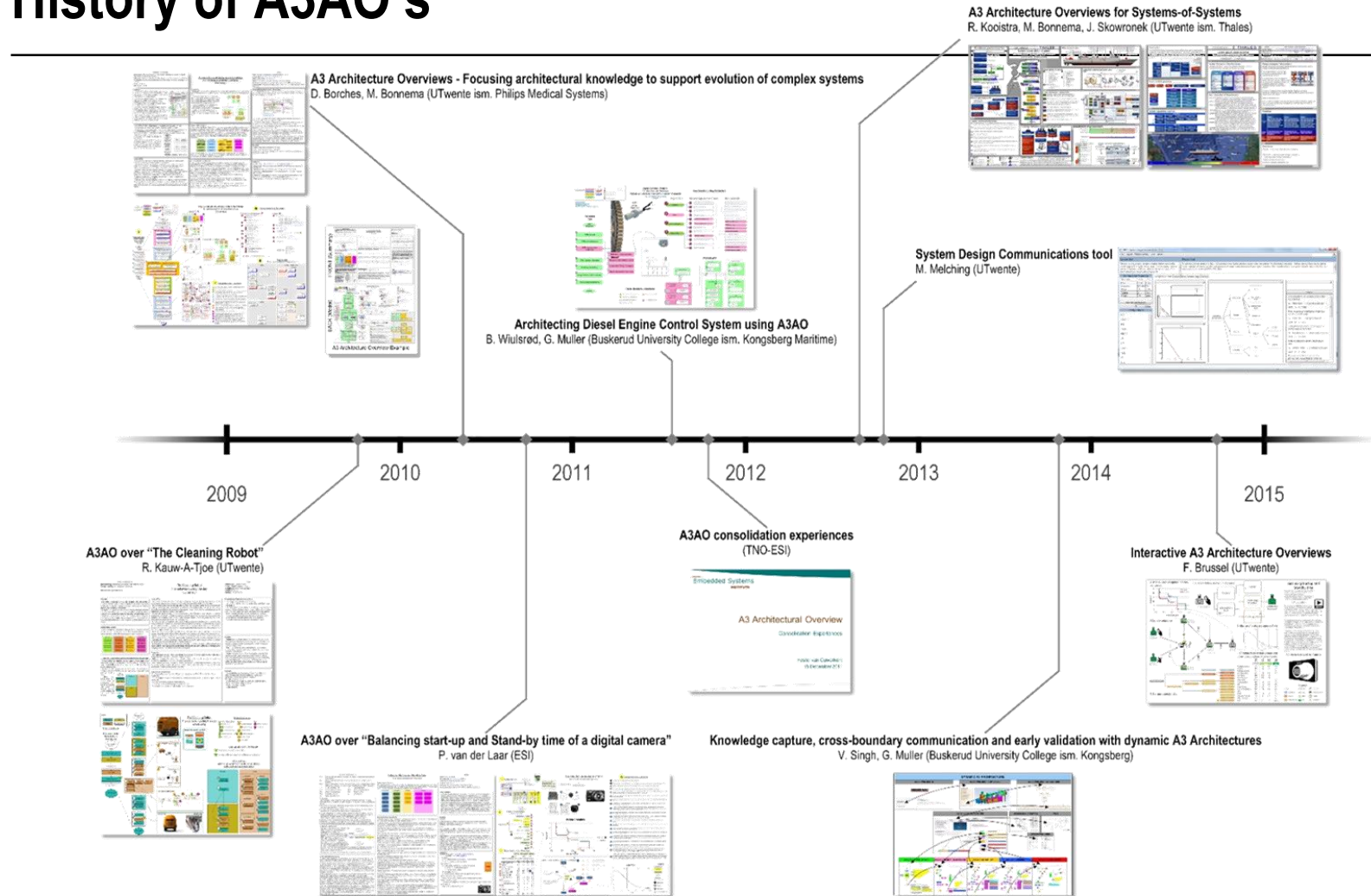
“...the key to knowledge creation lies in the **mobilization and conversion of tacit knowledge.**”

“[knowledge] conversion is a "social" process **between individuals** and not confined within an individual.”



Nonaka, I. and H. Takeuchi (1995). The Knowledge-Creating Company : How Japanese Companies Create the Dynamics of Innovation, Oxford University Press.

History of A3AO's



Adjacent Research

- Architecture Modelling
 - PhD work by Krijn Woestenenk, Defended on 6 March 2014
 - Modelling Architectures with a limited set of concepts
 - Allowing integration with existing tooling
 - May be used as formal backbone to A3AO's
- Systems Thinking
 - What are useful thinking patterns in systems design

