

Auteurs: Richard Doornbos, Bas Huijbrechts, Wouter Tabingh Suermondt

Model Based System Architecting (MBSA)

The wind farm case study



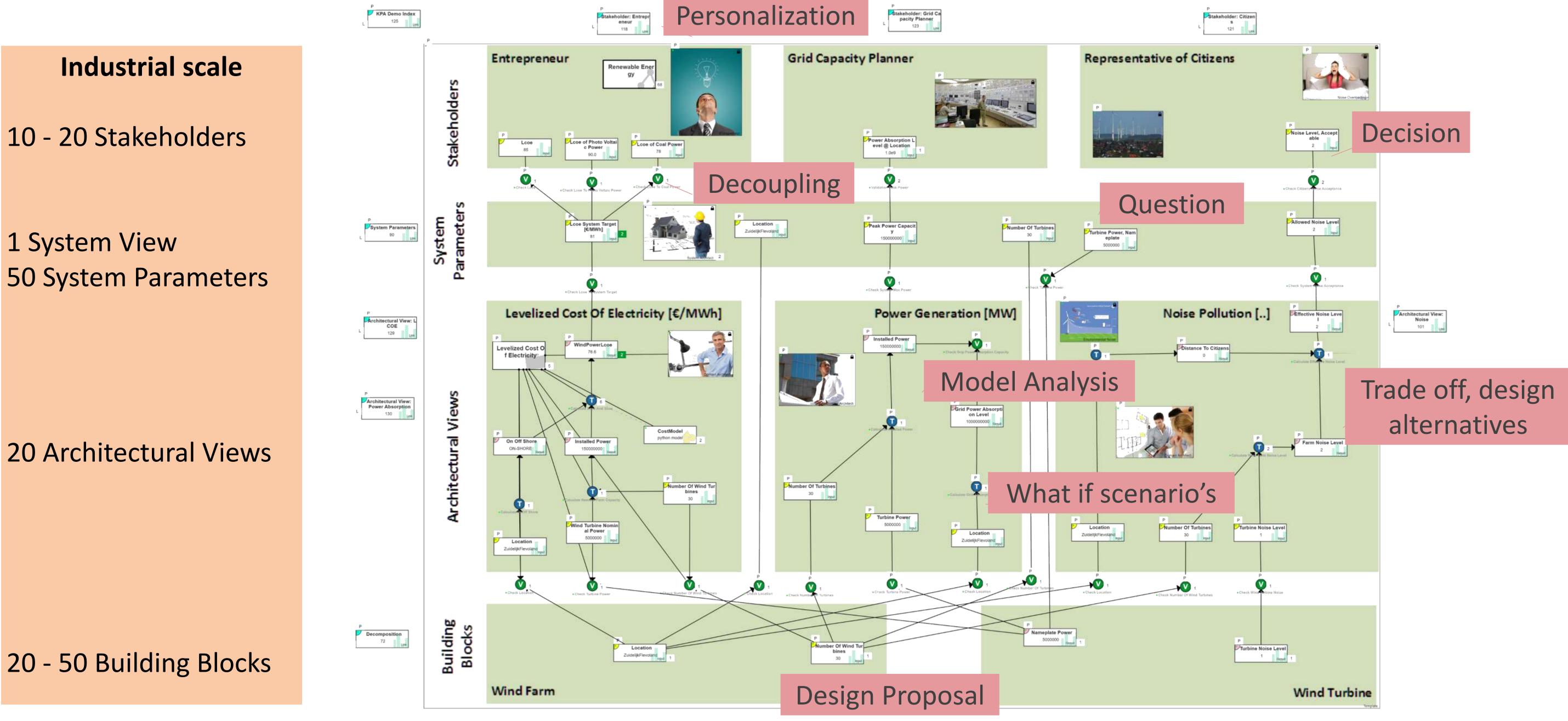
Conclusion

The Wind Farm case is an example of the MBSA Structure. The System Architect connects stakeholders, domain experts and engineering teams in a transparent and traceable way. Although the case is simplified, there is no fundamental limitation to support an industrial scale project.



Real life demo

The principles of the MBSA Structure will be demonstrated by the Wind Turbine case, using the Design Framework. Multiple stakeholders, architectural views and building blocks are connected by traffic lights. The System Architect is in full control by means of the system parameters. The Wind Turbine example can be shown and explored by the real life demo.



Industrial scale

Screenshot of the Wind Farm overview

Towards an industrial scale

The Wind Farm example shows the MBSA Structure and the Design Framework tool on a limited scale. The approach does not show fundamental limitations to scale up to industrial size projects. However more industrial research is required to verify this claim.

In partnership with:



The research is carried out as part of the Octo+ programme under the responsibility of the Embedded Systems Innovation by TNO (TNO-ESI) with Océ Technologies B.V. as the carrying industrial partner. The Octo+ research is supported by the Netherlands Organisation for Applied Scientific Research TNO.

Contact richard.doornbos@tno.nl bas.huijbrechts@tno.nl wouter.tabingh.suermondt@tno.nl