



Material Modelling Empowered Business Decision Support System (BDSS)



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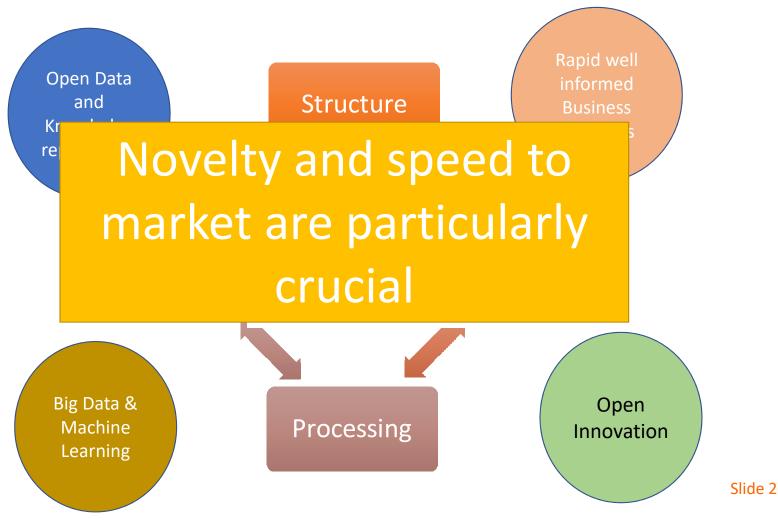






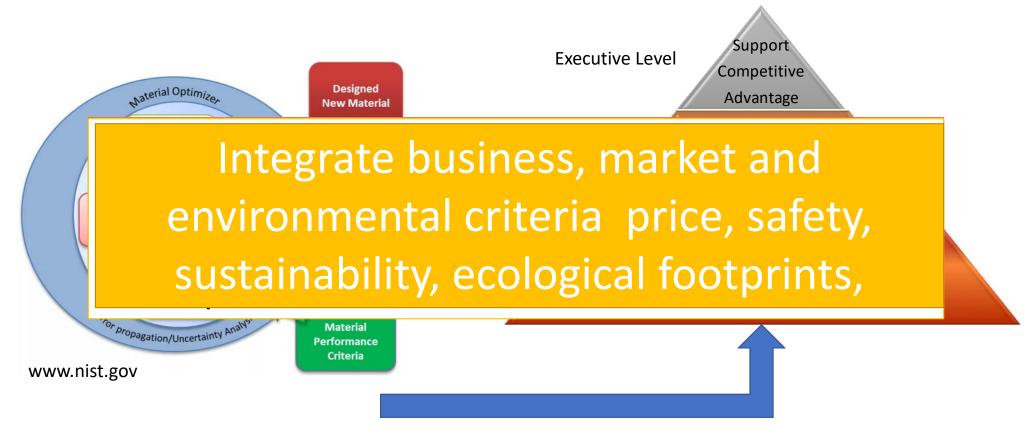


A vision Competitive Advantage





Road to competitive advantage





Material and Process Modelling Powered Business Decision Support systems



Bridge the gap between composite material and manufacturing process modelling to subsequent Business Implementation and Decision making

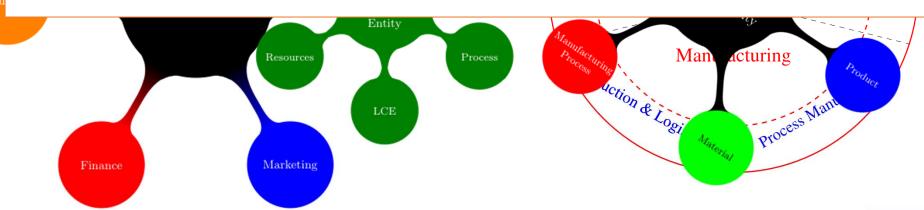




Business: The complete (cross-functional) operations of a company



A BDSS: A system that supports an organization to take informed decisions across different operations of the company





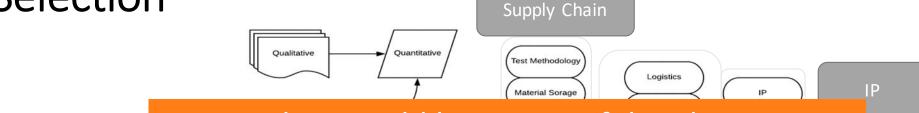
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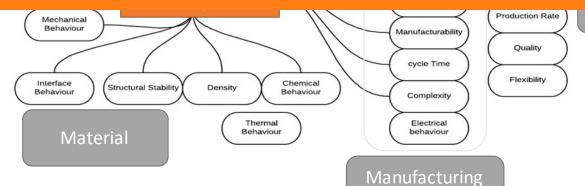
Business Decision Making Complexity



Composite Manufacturing: Material & Process Selection



Business Process An ontology could be very useful and serve as a **global shared model** capable to define descriptive properties of indicators together with the tools needed to calculate them.

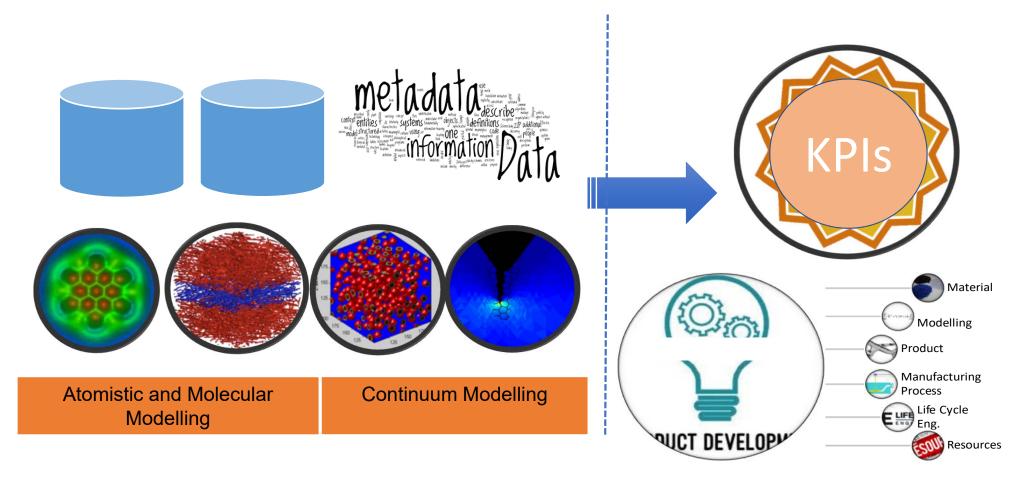


Process



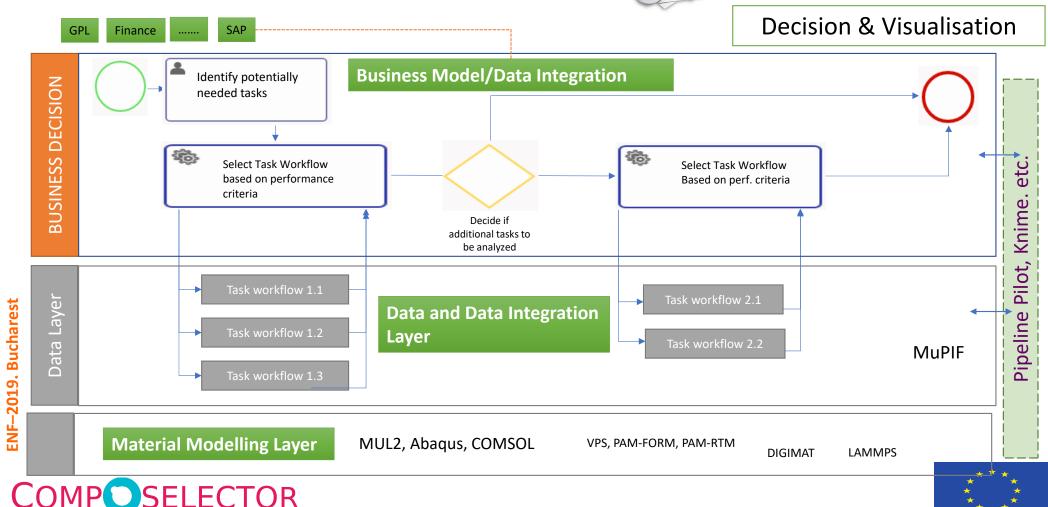


Material modelling as enabler for Business Decision?

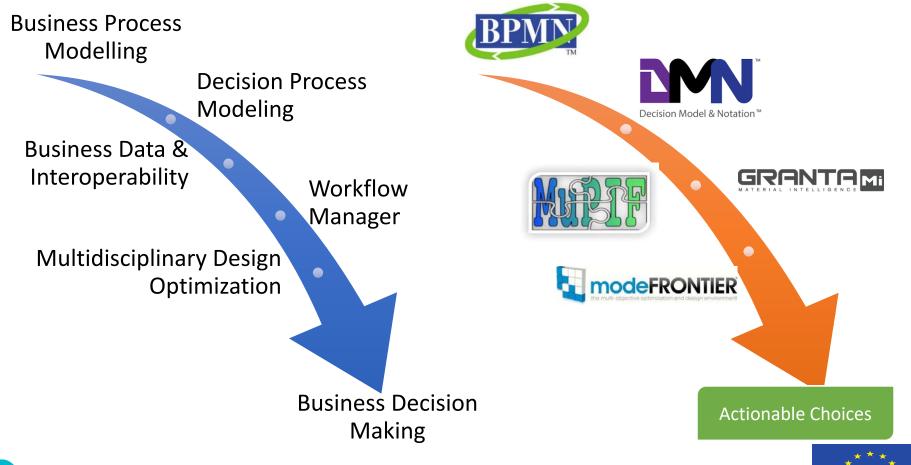


BDSS Implementation/Architecture



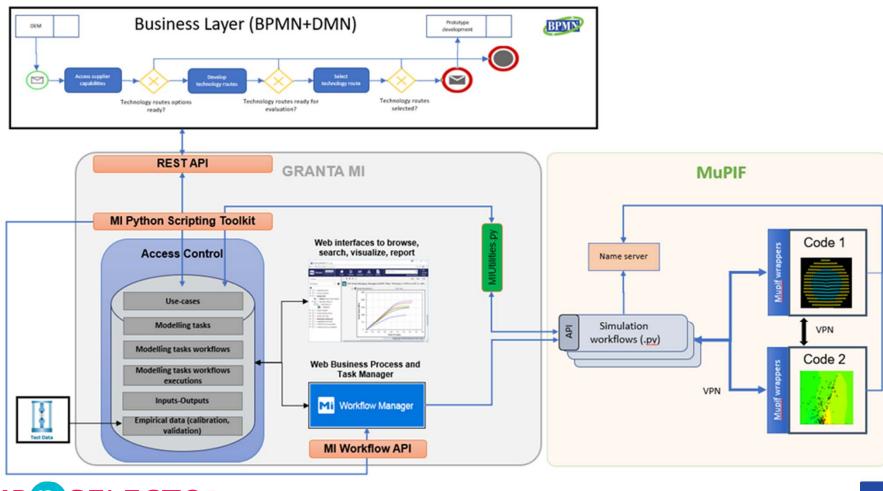


Decision Making Process in COMPOSELECTOR



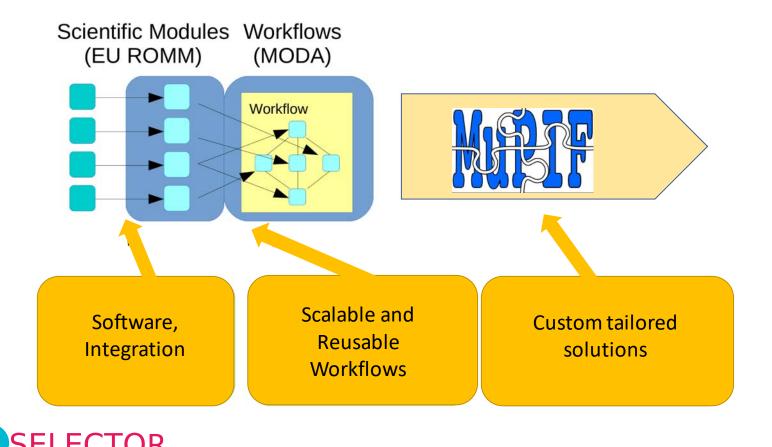


COMPOSELECTOR BDSS Concept.

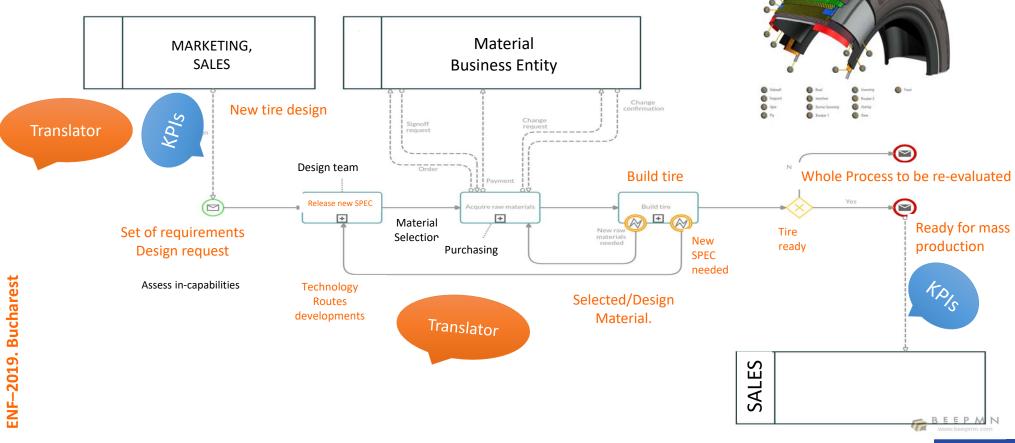




Material Modelling Platform











COMPOLECTOR BDSS

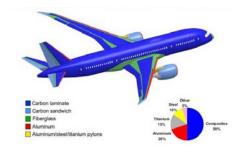


Interactive -> webbased interfaces and use external information

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Flexibility → add, delete, combine, change, re-arrange basic decision element

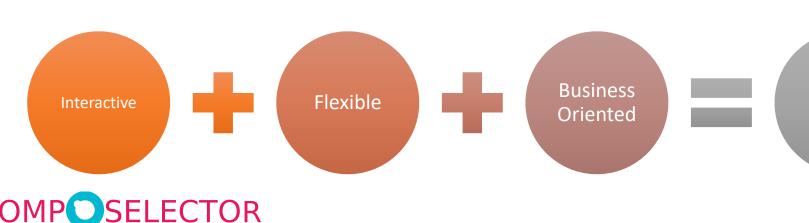


Composite Materials



COMPO

BDSS





Value Proposition of the Composelector BDSS

1. Easy and effective translation

- through graphically expressive notations
- Facilitate the the analysis and improvement of operations and decision process
- The library of processes, cases definition and business decisions.
- The Unambiguous format for modeling process, cases and decisions
- Can be interchanged between end-user, translator, modeler and producers or clients
- Provide common and ready-transferable skills (business, developer, IT, material modelers, ...)
- 2. Interfaces to closed-source, commercial as well as open-source modeling and simulation tools, databases, and post-processing tools
- Collaborative: Can be used at different decision level level and different decision makers









