

# Model Based Systems Engineering as Part of the Digital Transformation

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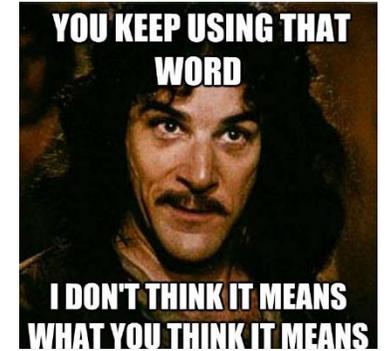
Jet Propulsion Laboratory, California Institute of Technology



**Jet Propulsion Laboratory**  
California Institute of Technology

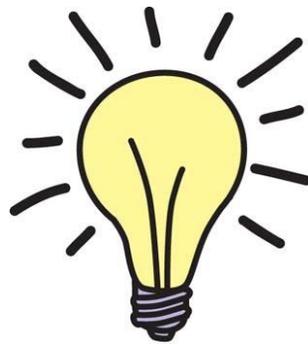
# What are the major bottlenecks for a comprehensive model based systems engineering capability?

- Vocabulary
- Quality Assessment
- Transferability
- Stakeholder Assessment



# What approach do you advocate to move MBSE forward in industry, government and academia?

- Vocabulary
- Quality Assessment
- Transferability
- Stakeholder Assessment



## Training

Academia →

- Formal MBSE Classes
- Collaboration with expert practitioners

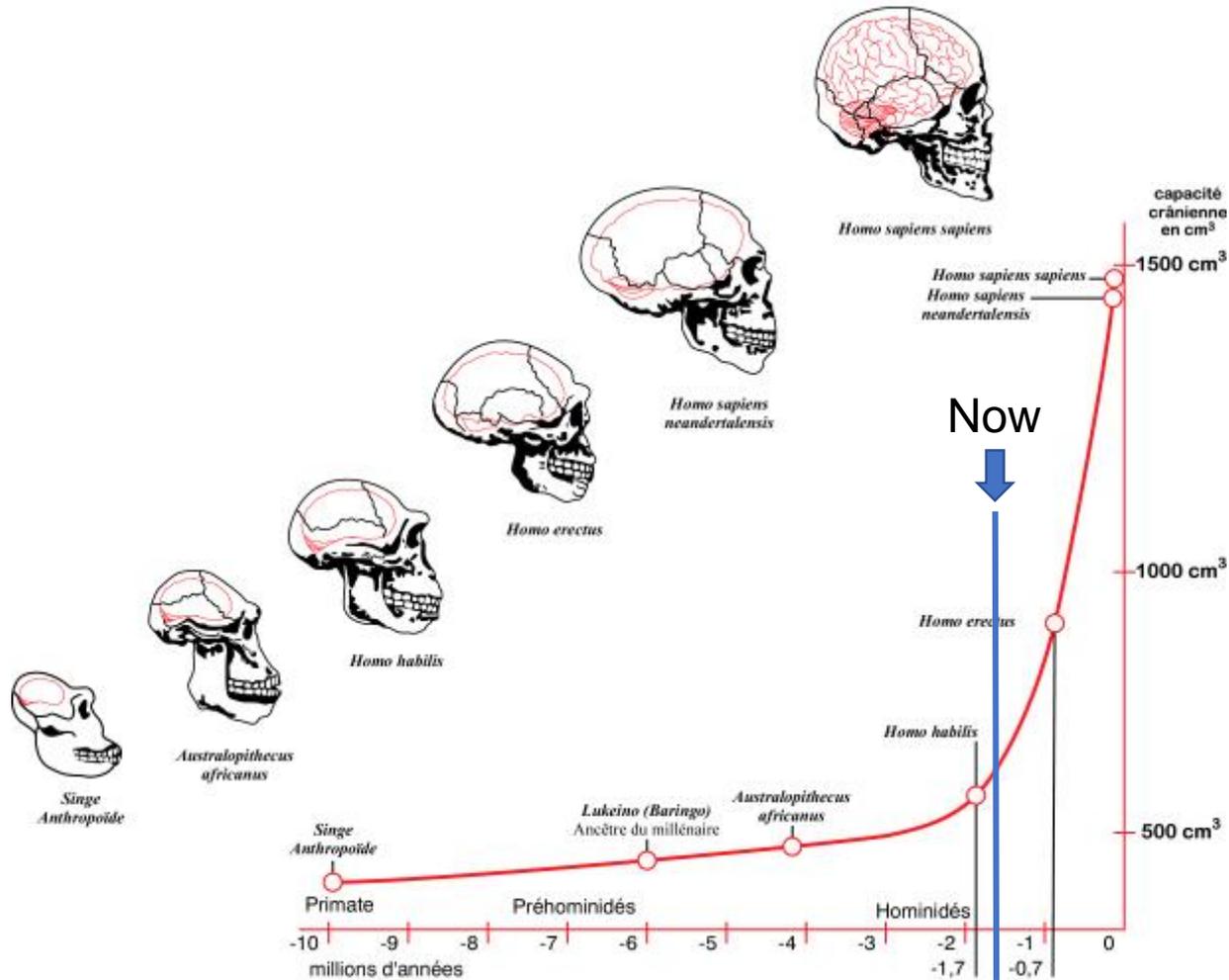
Government →

- Formalize best practices
- Incentivize adoption in competed & directed missions

Industry →

- Document and share institutional MBSE processes
- Open source tool adaptation

# What are the next steps and the time horizon for this SE transformation?



MBSE has entered the inflationary phase

- The next generation of projects will solidify practice (both good and bad) over next five years
- Further evolution will be evaluated in comparison until next breakthrough

Graphic adapted from Le Journal du Net (2010)