

# V4I Launch Project Trusted Model Repository

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## Project Lead:

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## Technical Lead:

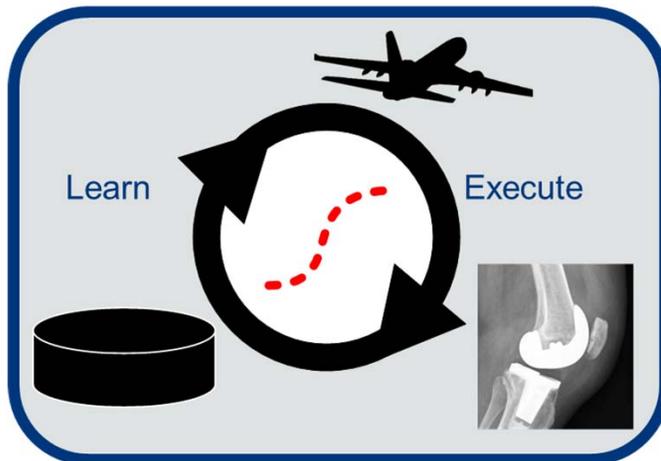
Marlon Pierce (IU) – HPC Gateway

Jason Sherey (ICTT) – Reference Pattern

# Project Team Members

## Phase 1 Team:

- Indiana University
- ICTT System Sciences
- Microsoft Corporation



Trusted Model Repository



## Project Description

- The **Trusted Model Repository (TMR) Reference Pattern** will provide actionable guidance and assets for life cycle management of Trusted Model Repositories and components:
  - For each virtual model: **Model Characterization Pattern** (Model Wrapper/Metadata);
  - For each TMR Platform's capabilities planning and assessment: **TMR Pattern**;
  - For overall Innovation Ecosystem capabilities planning and assessment: **Innovation Pattern**.
- The **Science & Engineering Gateway (SEG) Information Technology** will provide simplified access to High Performance Computing (HPC) resources for virtual verification of products and processes, based on use of standardized IT component sets, APIs, metadata.
- These two project components will improve ability to plan, implement, use, and manage Trusted Model Repositories, leveraging existing third party commercial off the shelf industry platforms and generic frameworks managing the federated supply chain ecosystems.

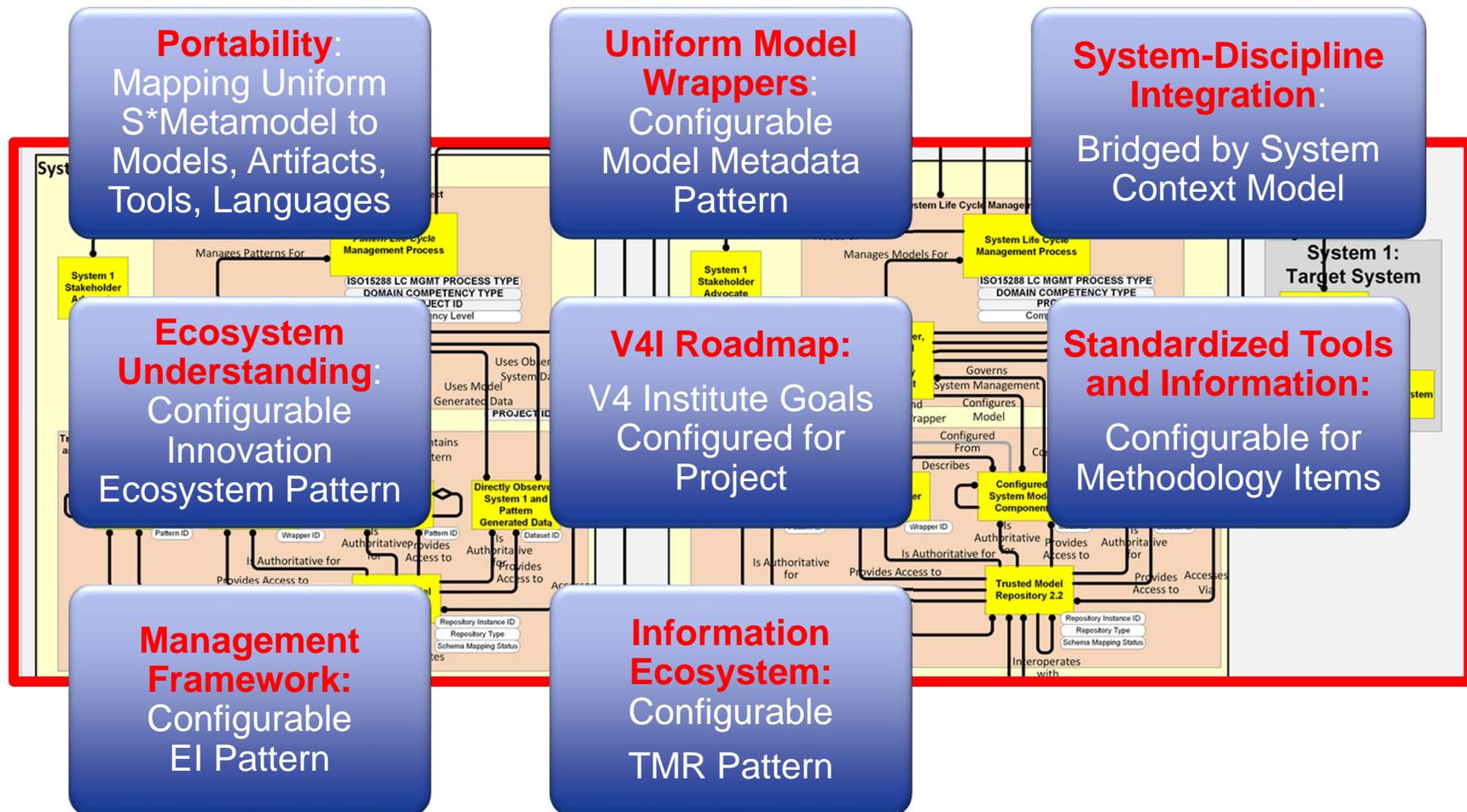
## System of Interest

- Phase 1: Application of TMR Ref Pattern to four targeted launch project ecosystems;
- Phase 2: Application of SEG IT, additional COTS platforms, to further ecosystems.

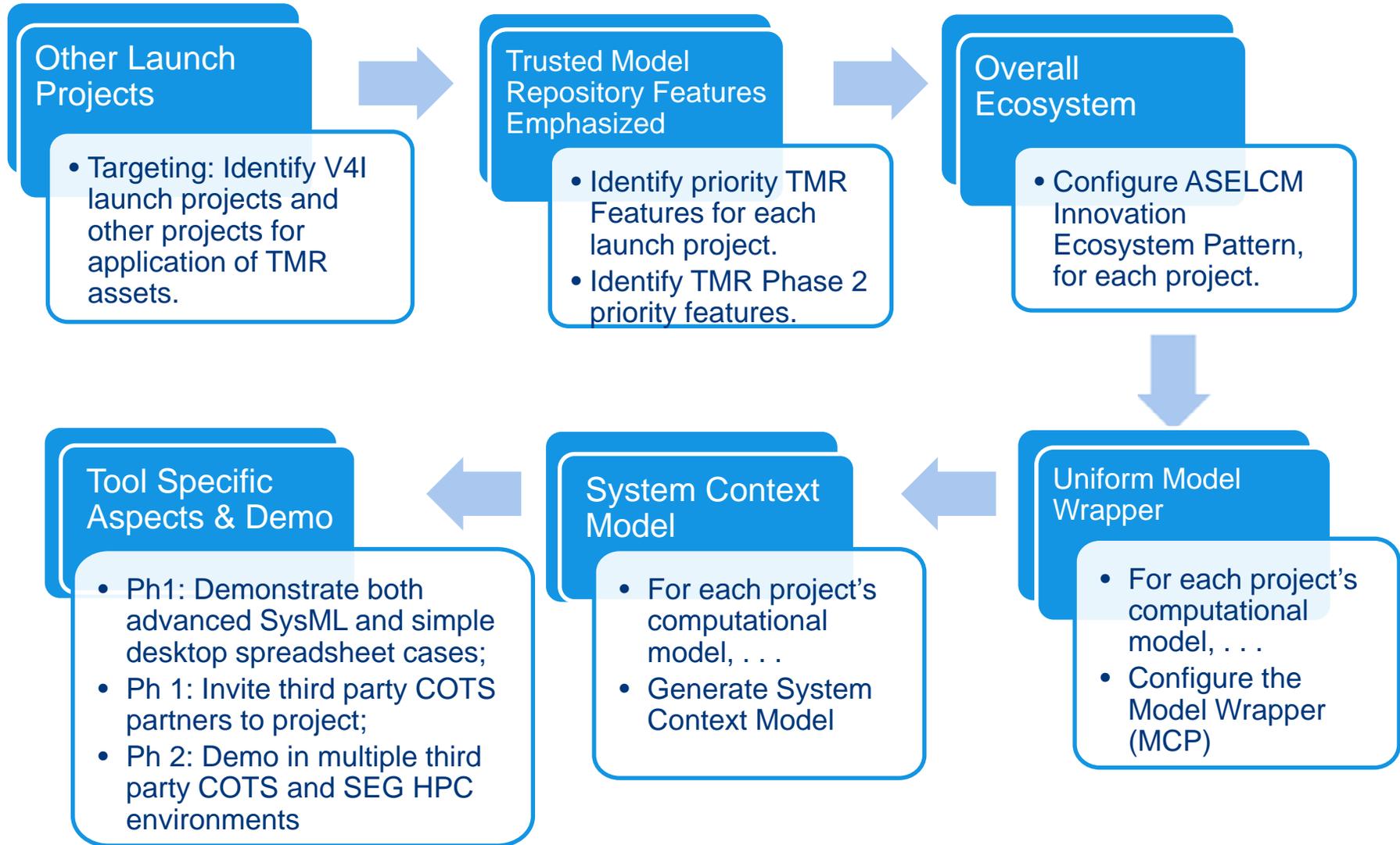
## Outcome

- Can we improve the description and packaging of virtual models and their application ecosystems for easier, frequent, confident use of model-based V&V by a larger supply chain workforce?

# V4I Framework Assets Applied in Project



# Project Deliverables (TMR Project Applications)



**Thank You**