Stakeholders for Models

<table>
<thead>
<tr>
<th>Model Stakeholder Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model User</td>
<td>A person, group, or organization that directly uses a model for its agreed upon purpose. May include technical specialists, non-technical decision-makers, customers, supply chain members, regulatory authorities, or others.</td>
</tr>
<tr>
<td>Model Developer</td>
<td>A person who initially creates a model, from conceptualization through implementation, validation, and verification, including any related model documentation. Such a person may or may not be the same as one who subsequently maintains the model.</td>
</tr>
<tr>
<td>Model Maintainer</td>
<td>A person who maintains and updates a model after its initial development. In effect, the model maintainer is a model developer after the initial release of a model.</td>
</tr>
<tr>
<td>Model Deployer-Distributor</td>
<td>A person or organization that distributes and deploys a model into its intended usage environment, including transport and installation, through readiness for use.</td>
</tr>
<tr>
<td>Model Use Supporter</td>
<td>A person who supports or assists a Model User in applying a model for its intended use. This may include answering questions, providing advice, addressing problems, or other forms of support.</td>
</tr>
<tr>
<td>Regulatory Authority</td>
<td>An organization that is responsible for generating or enforcing regulations governing a domain.</td>
</tr>
<tr>
<td>Model Investor-Owner</td>
<td>A person or organization that invests in a model, whether through development, purchase, licenses, or otherwise, expecting a benefit from that investment.</td>
</tr>
</tbody>
</table>
Computational Model Feature Groups: Configurable for Specific Models

- **Model Identity and Focus**: Identifies the main subject or focus of the model.
- **Model Utility**: Describes the intended use, utility, and value of the model.
- **Model Scope and Content**: Describes the scope of content of the model.
- **Model Fidelity**: Describes the fidelity of the model.
- **Model Life Cycle Management**: Describes the related model life cycle management capabilities.
- **Model Representation**: Describes the representation used by the model.
Computational Model Feature Groups: 27 Features, in 6 Feature Groups, Configurable for Specific Models

Legend:
- **Model Representation**
- **Model Scope and Content**
- **Model Identity and Focus**
- **Model Life Cycle Management**
- **Model Fidelity**
- **Model Utility**

### Model Representation
- **Conceptual Model Representation**
  - Conceptual Model Representation Type
  - Conceptual Model Interoperability
- **Executable Model Representation**
  - Executable Model Representation Type
  - Executable Model Interoperability

### Model Scope and Content
- **Modeled Stakeholder Value**
  - STAKEHOLDER TYPE
- **Modeled System External (Black Box) Behavior**
- **Explanatory Decomposition**
- **Parametric Couplings--Fitness**
- **Parametric Couplings--Decomposition**
- **Parametric Couplings--Characterization**
- **Trusted Configurable Pattern**
  - CONFIGURATION ID
  - Pattern Type
- **Physical Architecture**
- **Managed Model Datasets**
  - DATASET TYPE

### Model Identity and Focus
- **Modeled System of Interest**
  - System of Interest
- **Modeled Environmental Domain**
  - Domain Type

### Model Life Cycle Management
- **Model Versioning and Configuration Management**
  - CM CAPABILITY TYPE
- **Model Maintainability**
  - Maintenance Method
- **Model Deployability**
  - Deployment Method
- **Model Cost**
  - Development Cost
  - Operational Cost
  - Maintenance Cost
  - Deployment Cost
  - Retirement Cost
  - Life Cycle Financial Risk
- **Executable Model Environmental Compatibility**
  - IT ENVIRONMENTAL COMPONENT
- **Model Design Life Cycle and Retirement**
  - Design Life
- **Model Availability**
  - First Availability Date
  - First Availability Risk
  - Life Cycle Availability Risk

### Model Fidelity
- **Model Envelope**
  - MODEL APPLICATION ENVELOPE
  - Quantitative Accuracy Reference
  - Function Structure Accuracy Reference
  - Uncertainty Quantification (UQ) Reference
  - Model Validation Reference
- **Validated Conceptual Model Fidelity**
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  - Function Structure Accuracy Reference
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  - Model Validation Reference
- **Verified Executable Model Fidelity**
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  - Function Structure Accuracy Reference
  - Uncertainty Quantification (UQ) Reference
  - Model Validation Reference

### Model Utility
- **Model Intended Use**
  - LIFE CYCLE PROCESS SUPPORTED (ISO15288)
  - Level of Annual Use
  - Value Level
- **Perceived Model Value and Use**
  - USER GROUP SEGMENT
  - ACCEPTING AUTHORITY
- **Third Party Acceptance**
  - Perceived Model Complexity

### Model Utility
- **Modeled Stakeholder Value**
  - STAKEHOLDER TYPE
- **Modeled System External (Black Box) Behavior**
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<th>Feature Attribute</th>
<th>Attribute Definition</th>
<th>Feature Stakeholder</th>
<th>Model Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Identity</td>
<td>Modeled System of Interest</td>
<td>Identifies the type of system this model describes.</td>
<td>System of Interest</td>
<td>Name of system of interest, or class of systems of interest</td>
<td>X</td>
<td>X X X X</td>
</tr>
<tr>
<td>and Focus</td>
<td>Modeled Environmental Domain</td>
<td>Identifies the type of external environmental domain(s) that this model includes.</td>
<td>Domain Type(s)</td>
<td>Name(s) of modeled domains (manufacturing, distribution, use, etc.)</td>
<td>X</td>
<td>X X X X</td>
</tr>
</tbody>
</table>

**Identifies the main subject or focus of the model**
# Model Utility

## Model Intended Use
- **Life Cycle Process Supported (ISO15288)**
- **User Group Segment**
- **Level of Annual Use**
- **Value Level**

## Perceived Model Value and Use
- **Third Party Acceptance**
- **Accepting Authority**
- **Perceived Model Complexity**

## Model Ease of Use
- **Model User**
- **Model Developer**
- **Model Maintainer**
- **Mdl Deployer-Distributor**
- **Model Use Supporter**
- **Regulatory Authority**
- **Mdl Investor-Owner**

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</tr>
</thead>
<tbody>
<tr>
<td>Model Utility</td>
<td>Model Intended Use</td>
<td>The intended purpose(s) or use(s) of the model.</td>
<td>Life Cycle Process Supported</td>
<td>The intended life cycle management process to be supported by the model, from the ISO15288 process list. More than one value may be listed.</td>
<td>X</td>
<td>X X X X</td>
</tr>
<tr>
<td>Model Utility</td>
<td>Perceived Model Value and Use</td>
<td>The relative level of value ascribed to the model, by those who use it for its stated purpose.</td>
<td>User Group Segment</td>
<td>The identity of using group segment (multiple)</td>
<td>X</td>
<td>X X X X</td>
</tr>
<tr>
<td>Model Utility</td>
<td>Perceived Model Value and Use</td>
<td></td>
<td>Level of Annual Use</td>
<td>The relative level of annual use by the segment</td>
<td>X</td>
<td>X X X X</td>
</tr>
<tr>
<td>Model Utility</td>
<td>Perceived Model Value and Use</td>
<td></td>
<td>Value Level</td>
<td>The value class associated with the model by that segment</td>
<td>X</td>
<td>X X X X</td>
</tr>
<tr>
<td>Model Utility</td>
<td>Third Party Acceptance</td>
<td>The degree to which the model is accepted as authoritative, by third party regulators, customers, supply chains, and other entities, for its stated purpose.</td>
<td>Accepting Authority</td>
<td>The identity (may be multiple) of regulators, agencies, customers, supply chains, accepting the model</td>
<td>X</td>
<td>X X X X</td>
</tr>
<tr>
<td>Model Utility</td>
<td>Model Ease of Use</td>
<td>The perceived ease with which the model can be used, as experienced by its intended users</td>
<td>Perceived Model Complexity</td>
<td>High, Medium Low</td>
<td>X</td>
<td>X X X X</td>
</tr>
</tbody>
</table>

Describes the intended use, utility, and value of the model.
## Model Scope and Content

<table>
<thead>
<tr>
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<th>Attribute Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Scope of Content</strong></td>
<td>Modeled Stakeholder Value</td>
<td>The capability of the model to describe fitness or value of the System of Interest, by identifying its stakeholders and modeling the related Stakeholder Features.</td>
<td>Stakeholder Type</td>
<td>Classes of covered stakeholders (may be multiple)</td>
</tr>
<tr>
<td></td>
<td>Modeled System External (Black Box) Behavior</td>
<td>The capability of the model to represent the objective external (&quot;black box&quot;) technical behavior of the system, through significant interactions with its environment, based on modeled input-output exchanges through external interfaces, quantified by technical performance measures, and varying behavioral modes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Explanatory Decomposition</td>
<td>The capability of the model to represent the decomposition of its external technical behavior, as explanatory internal (&quot;white box&quot;) internal interactions of decomposed roles, further quantified by internal technical performance measures, and varying internal behavioral modes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Architecture</td>
<td>The capability of the model to represent the physical architecture of the system of interest. This includes identification of its major physical components and their architectural relationships.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Model Scope and Content

### Feature Groups
- **Model Type**
- **Feature Name**
- **Feature Definition**
- **Feature Attribute**
- **Attribute Definition**

### Feature Stakeholders
- Model User
- Model Developer
- Model Maintainer
- Mdl Deployer-Distributor
- Model Use Supporter
- Regulatory Authority
- Mdl Investor-Owner

### Managed Datasets
- Dataset Type
- Configuration ID
- Pattern ID

---

### Describes the scope of content of the model

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<th>Attribute Definition</th>
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<tbody>
<tr>
<td>Parametric Couplings--Fitness</td>
<td>The capability of the model to represent quantitative (parametric) couplings between stakeholder-valued measures of effectiveness and objective external black box behavior performance measures.</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Parametric Couplings--Decomposition</td>
<td>The capability of the model to represent quantitative (parametric) couplings between objective external black box behavior variables and objective internal white box behavior variables.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parametric Couplings--Characterization</td>
<td>The capability of the model to represent quantitative (parametric) couplings between objective behavior variables and physical identity (material of construction, part or model number).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managed Model Datasets</td>
<td>The capability of the model to include managed datasets for use as inputs, parametric characterizations, or outputs.</td>
<td>Dataset Type: The type(s) of data sets (may be multiple)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trusted Configurable Pattern</td>
<td>The capability of the model to serve as a configurable pattern, representing different modeled system configurations across a common domain, spreading the cost of establishing trusted model frameworks across a community of applications and configurations.</td>
<td>Configuration ID: A specific system of interest configuration within the family that the pattern framework can represent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pattern ID: The identifier of the trusted configurable pattern.</td>
<td>Pattern ID: The identifier of the trusted configurable pattern.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Model Scope and Content

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</tr>
<tr>
<td></td>
<td>Pattern ID The identifier of the trusted configurable pattern.</td>
<td>X X X X X X</td>
</tr>
</tbody>
</table>
# Model Fidelity

## Model Envelope

**Model Application Envelope**

The capability of the model to meet its Model Fidelity requirements over a stated range (envelope) of dynamical inputs, outputs, and parameter values.

<table>
<thead>
<tr>
<th>Feature Group</th>
<th>Feature Name</th>
<th>Feature Definition</th>
<th>Feature Attribute</th>
<th>Attribute Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Fidelity</td>
<td>Model Envelope</td>
<td>The range over which the model is intended for use.</td>
<td></td>
<td>![X] X X ![X] X X X X</td>
</tr>
<tr>
<td>Validated Conceptual Model Fidelity</td>
<td>Quantitative Accuracy Reference</td>
<td>The specification reference describing the quantitative accuracy of the conceptual model compared to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
<tr>
<td></td>
<td>Function Structure Accuracy Reference</td>
<td>The specification reference describing the structural (presence or absence of behaviors) accuracy of the conceptual model compared to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
<tr>
<td></td>
<td>Uncertainty Quantification (UQ) Reference</td>
<td>The specification reference describing the degree of uncertainty of the fidelity of the conceptual model to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
<tr>
<td></td>
<td>Model Validation Reference</td>
<td>The reference documenting the validation of the conceptual model’s fidelity to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
</tbody>
</table>

## Validated Executable Model Fidelity

<table>
<thead>
<tr>
<th>Feature Group</th>
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<th>Feature Definition</th>
<th>Feature Attribute</th>
<th>Attribute Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Validated Executable Model Fidelity</td>
<td>Quantitative Accuracy Reference</td>
<td>The specification reference describing the quantitative accuracy of the executable model compared to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
<tr>
<td></td>
<td>Function Structure Accuracy Reference</td>
<td>The specification reference describing the structural (presence or absence of behaviors) accuracy of the executable model compared to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
<tr>
<td></td>
<td>Uncertainty Quantification (UQ) Reference</td>
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<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
<tr>
<td></td>
<td>Model Validation Reference</td>
<td>The reference documenting the validation of the executable model’s fidelity to the system of interest.</td>
<td>![X]</td>
<td>X X X ![X] X X X X</td>
</tr>
</tbody>
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## Feature Stakeholder

<table>
<thead>
<tr>
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<th>Model Developer</th>
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<th>Mdl Use Supporter</th>
<th>Regulatory Authority</th>
<th>Mdl Investor-Owner</th>
<th>Physics Based</th>
<th>Data Driven</th>
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**Model Fidelity**

**Verified Executable Model Fidelity**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Feature Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model Fidelity</td>
<td>Verified Executable Model Fidelity</td>
<td></td>
<td>The verified capability of the executable portion of the model to represent the System of Interest, with acceptable fidelity.</td>
</tr>
<tr>
<td></td>
<td>Quantitative Accuracy Reference</td>
<td>The specification reference describing the quantitative accuracy of the executable model to the conceptual model.</td>
<td></td>
<td>x x x x x x x x</td>
</tr>
<tr>
<td></td>
<td>Structural Accuracy Reference</td>
<td>The specification reference describing the structural (presence or absence of elements) accuracy of the executable model to the conceptual model.</td>
<td></td>
<td>x x x x x x x x</td>
</tr>
<tr>
<td></td>
<td>Uncertainty Quantification (UQ) Reference</td>
<td>The specification reference describing the degree of uncertainty of the fidelity of the executable model to the conceptual model.</td>
<td></td>
<td>x x x x x x x x</td>
</tr>
<tr>
<td></td>
<td>Speed</td>
<td>The specification reference describing the execution run time (speed) for the executable model.</td>
<td></td>
<td>x x x x x x x x</td>
</tr>
<tr>
<td></td>
<td>Quantization</td>
<td>The specification reference describing the quantization error of the executable model.</td>
<td></td>
<td>x x x x x x x x</td>
</tr>
<tr>
<td></td>
<td>Stability</td>
<td>The specification reference describing the level of stability of the accuracy and uncertainty of the executable model error characteristics.</td>
<td></td>
<td>x x x x x x x x</td>
</tr>
<tr>
<td></td>
<td>Model Validation Reference</td>
<td>The reference documenting the verification of the executable model's fidelity to the conceptual model.</td>
<td></td>
<td>x x x x x x x x</td>
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**Model Envelope**

**Validated Conceptual Model Fidelity**

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<td></td>
<td>Model Validation Reference</td>
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**Model Type**

- **Physics Based**
- **Data Driven**

**Feature Stakeholder**

- **Model User**
- **Model Developer**
- **Model Maintainer**
- **Mdl Deployer-Distributor**
- **Model Use Supporter**
- **Regulatory Authority**
- **Mdl Investor-Owner**
### Model Life Cycle Management

**Model Versioning and Configuration Management**
- **Feature**: The capability of the model to provide for version and configuration management.
- **Feature Attribute**: CM Capability Type
- **Attribute Definition**: The type(s) of CM capabilities included (may be multiple)

**Executable Model Environmental Compatibility**
- **Feature**: The capability of the model to be compatibly supported by specified information technology environment(s), indicating compatibility, portability, and interoperability.
- **Feature Attribute**: IT Environmental Component
- **Attribute Definition**: The type(s) of IT environments or standards supported

**Model Design Life Cycle and Retirement**
- **Feature**: The capability of the model to be sustained over an indicated design life, and retired on a planned basis.
- **Feature Attribute**: Design Life
- **Attribute Definition**: The planned retirement date

**Model Maintainability**
- **Feature**: The relative ease with which the model can be maintained over its intended life cycle and use, based on capable maintainers, availability of effective model documentation, and degree of complexity of the model.
- **Feature Attribute**: Maintenance Method
- **Attribute Definition**: The type of maintenance methodology used to maintain the model's capability and availability for the intended purposes over the intended life cycle.

**Model Deployability**
- **Feature**: The capability of the model to support deployment into service on behalf of intended users, in its original or subsequent updated versions.
- **Feature Attribute**: Deployment Method
- **Attribute Definition**: The type of method used to deploy (possibly in repeating cycles) the model into its intended use environment.

**Model Availability**
- **Feature**: First Availability Date
- **Feature Attribute**: First Availability Risk
- **Attribute Definition**: Life Cycle Availability Risk
### Model Life Cycle Management

<table>
<thead>
<tr>
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<th>Attribute Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Cost</td>
<td>Development Cost</td>
<td>The cost to develop the model, including its validation and verification, to its first availability for service date</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Operational Cost</td>
<td>The cost to execute and otherwise operate the model, in standardized execution load units</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Maintenance Cost</td>
<td>The cost to maintain the model</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Deployment Cost</td>
<td>The cost to deploy, and redeploy updates, per cycle</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Retirement Cost</td>
<td>The cost to retire the model from service, in a planned fashion</td>
<td>X</td>
<td>X</td>
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<td></td>
<td>Life Cycle Financial Risk</td>
<td>Risk to the overall life cycle cost of the model</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Model Availability</td>
<td>First Availability Date</td>
<td>Date when version will first be available</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>First Availability Risk</td>
<td>Risk to the scheduled date of first availability</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Life Cycle Availability Risk</td>
<td>Risk to ongoing availability after introduction</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Feature Group</td>
<td>Feature Name</td>
<td>Feature Definition</td>
<td>Feature Attribute</td>
<td>Attribute Definition</td>
</tr>
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<td>Conceptual Model Representation</td>
<td>The capability of the conceptual portion of the model to represent the system of interest, using a specific type of representation.</td>
<td>Conceptual Model Representation Type</td>
<td>The type of conceptual modeling language or metamodel used.</td>
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<td></td>
<td>Conceptual Model Interoperability</td>
<td>The degree of interoperability of the conceptual model, for exchange with other environments</td>
<td></td>
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<tr>
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<td>Executable Model Representation</td>
<td>The capability of the executable portion of the model to represent the system of interest, using a specific type of representation</td>
<td>Executable Model Representation Type</td>
<td>The type of executable modeling language or metamodel used.</td>
</tr>
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<td></td>
<td>Executable Model Interoperability</td>
<td>The degree of interoperability of the executable model, for exchange with other environments</td>
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