

# Good IDEF0 Task Models

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- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- Model important by-products/side effects.
- Model human performance-shaping factors.
- Model guidance information, other constraints.
- Model user(s)/operator(s).
- Model tools, equipment, etc.
- Provide sufficient level of detail.

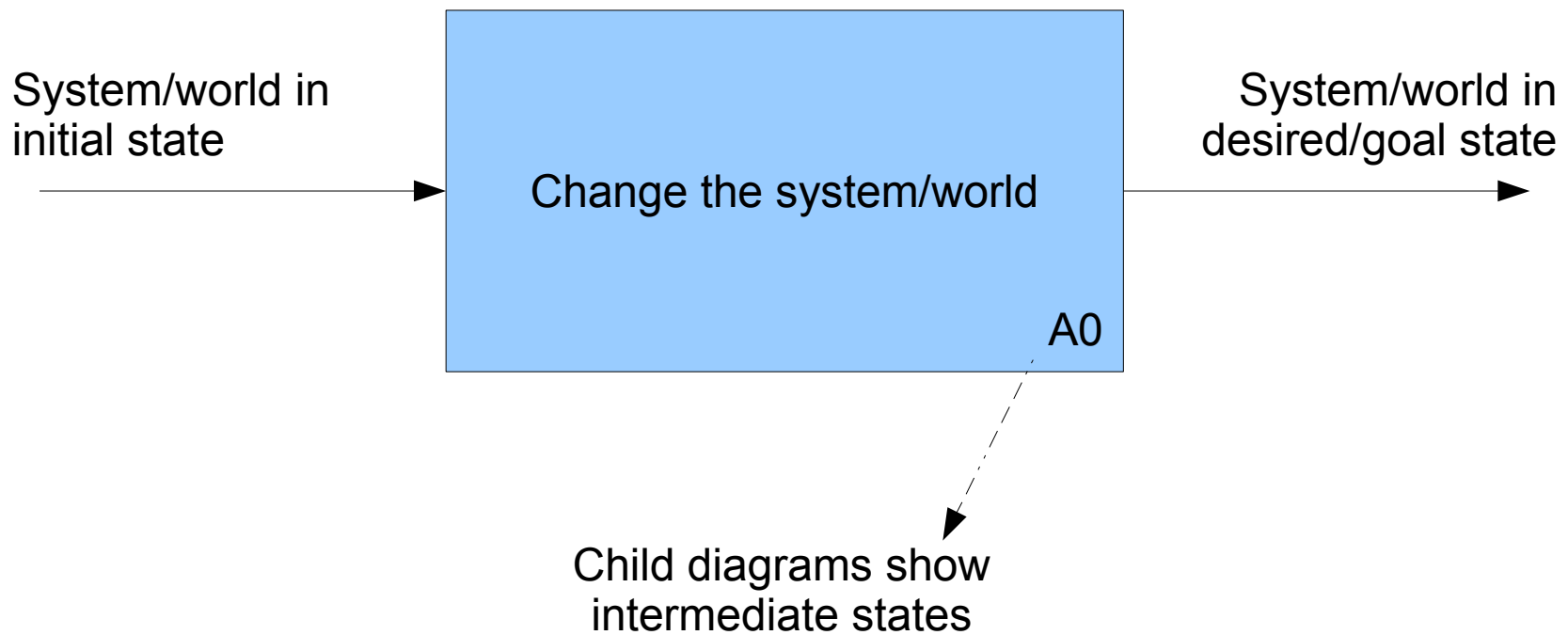
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- **Follow IDEF0 rules and guidelines, e.g.,**
  - verb phrases in boxes
  - noun phrases on arrows
  - 3-6 boxes per diagram (except A-0)
  - All boxes in diagram have same “flavor,” e.g.,
    - level of detail
    - parallel construction (same label syntactic structure)
  - Functionally dominant boxes towards upper left
  - etc.

# Good IDEF0 Task Models

- Follow IDEF0 rules.
- **Tell a “transformative” story:**



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- Follow IDEF0 rules.
- Tell a “transformative” story.
- **Model operator tasks as IDEF0 activities:**

- Enter/ingress
- Plan ...
- Prepare ...
- Configure/setup ...
- Monitor ...
- Control ...
- Communicate ...
- Detect ...
- Decide ...
- Diagnose ...
- Evaluate ...
- Maintain ...
- Predict ...
- Exit/egress
- etc.

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- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- **Show other transformations as inputs/outputs, e.g.,**
  - parts, materials, supplies, etc. to be used
  - documents, records to be updated
  - tools, equipment, devices, etc. to be prepared, configured, setup to be used (as mechanisms)
  - etc.

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- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- **Model important by-products/side effects as outputs, e.g.,**
  - reports
  - documents
  - other communication
  - waste
  - etc.

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- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- Model important by-products/side effects.
- **Model human performance-shaping factors as controls, e.g.**
  - Environmental factors
  - Time & other stressors
  - Fatigue
  - Other user/operator factors
  - System/equipment factors



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  - Model human performance-shaping factors.
  - **Model guidance information, other constraints as controls, e.g.**
    - orders
    - policies, procedures, checklists
    - rules, regulations
    - etc.
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- Model guidance information, other constraints.
- **Model user(s)/operator(s) as mechanisms.**

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- **Model tools, equipment, etc. as mechanisms.**

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- Model guidance information, other constraints.
- Model user(s)/operator(s).
- Model tools, equipment, etc.
- **Provide sufficient level of detail to**
  - demonstrate deep understanding of system, tasks
  - support requirements development