

Conclusion



Automated Planning and Acting

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Deliberative Planning and Acting

▶ Key message

- Acting as a deliberation function
- Planning without acting: reductive view
- Principles for integrating planning and acting
 - Hierarchically organized deliberation
 - Continual online deliberation

▶ Approach: refinement methods

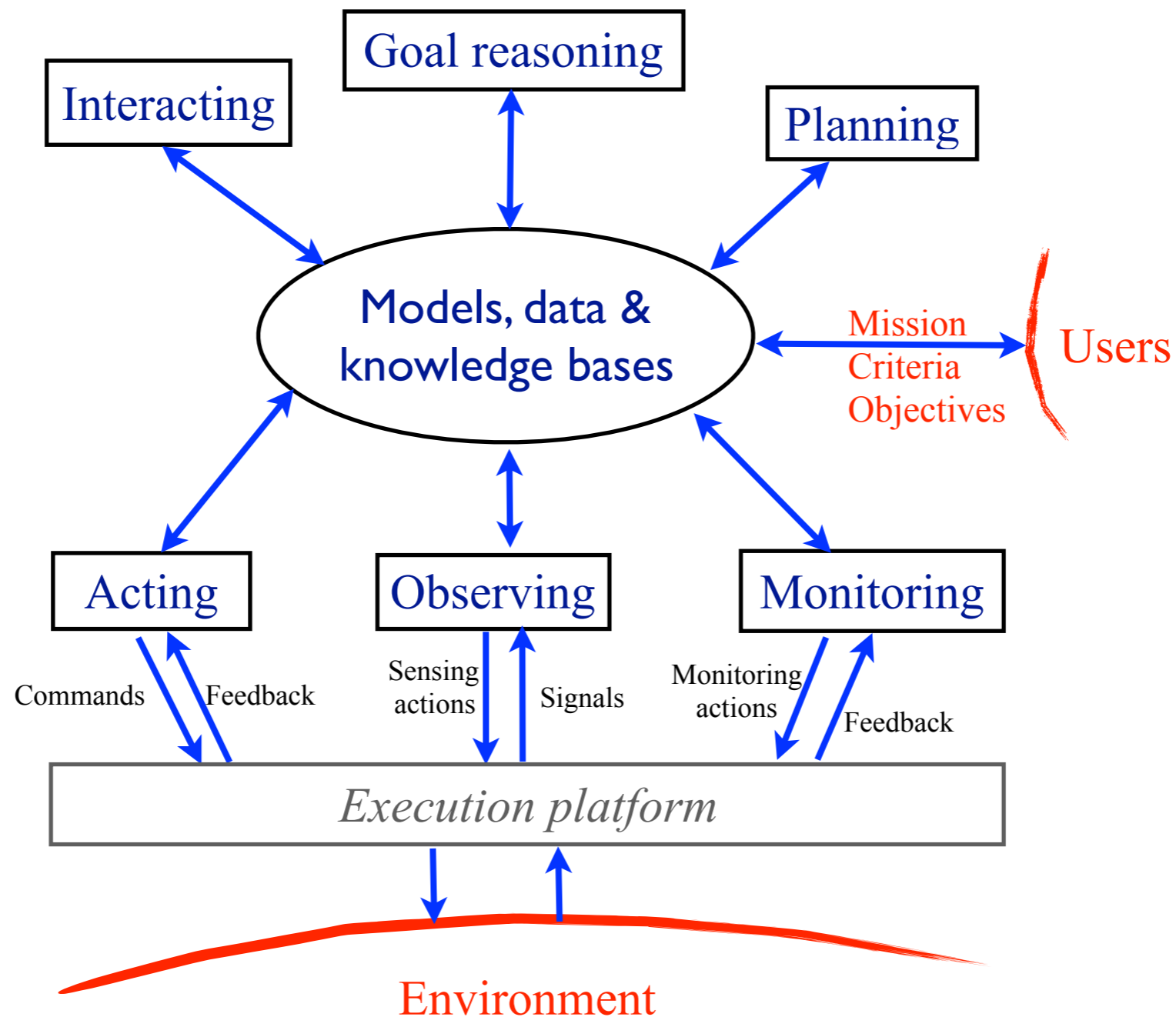
- Uniform representation operational and descriptive models
- Flexible for handling different classes of models
- Potential for integrating specific representations and techniques

Research agenda

- ▶ Integrate deliberation functions other than planning and acting
 - Monitoring
 - Perceiving
 - Goal reasoning
 - Interacting

Research agenda

- ▶ Integrate deliberation functions other than planning and acting



Research agenda

- ▶ Integrate deliberation functions other than planning and acting
 - Monitoring
 - Perceiving
 - Goal reasoning
 - Interacting
- ▶ Integrate model-based and learning-based approaches
Reinforcement learning and learning from demonstration to
 - Acquire operational models:
domain specific skills as bodies of methods
 - Acquire descriptive models