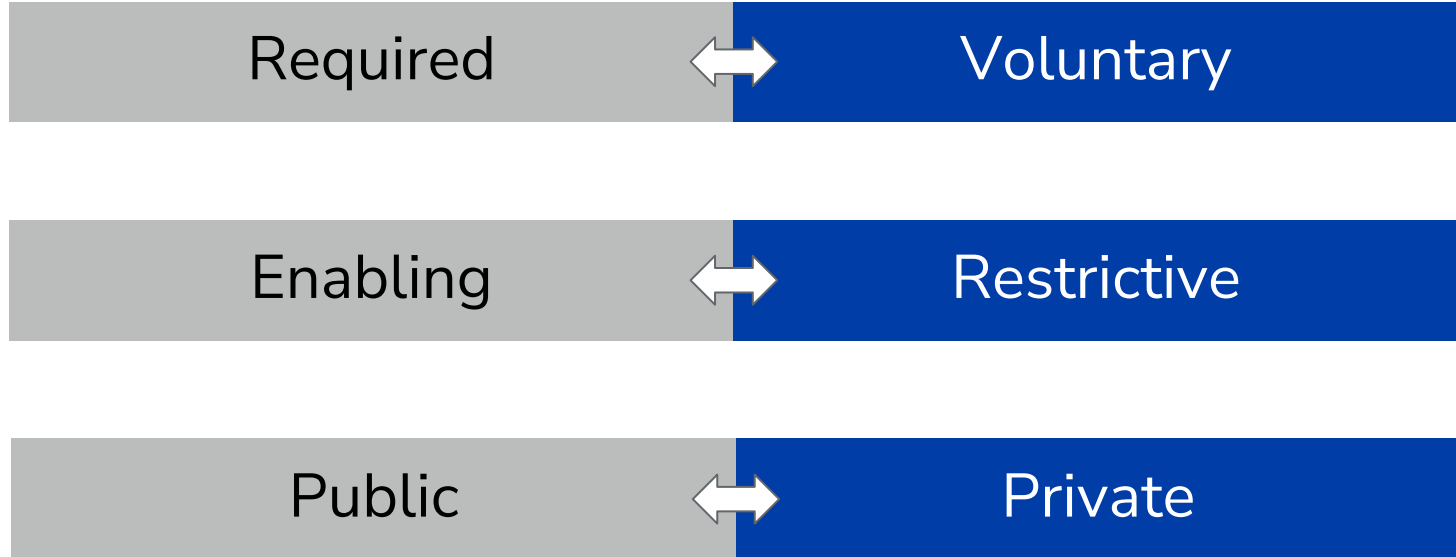

Governance Across the AI Spectrum: Key Considerations from Data to Deployment

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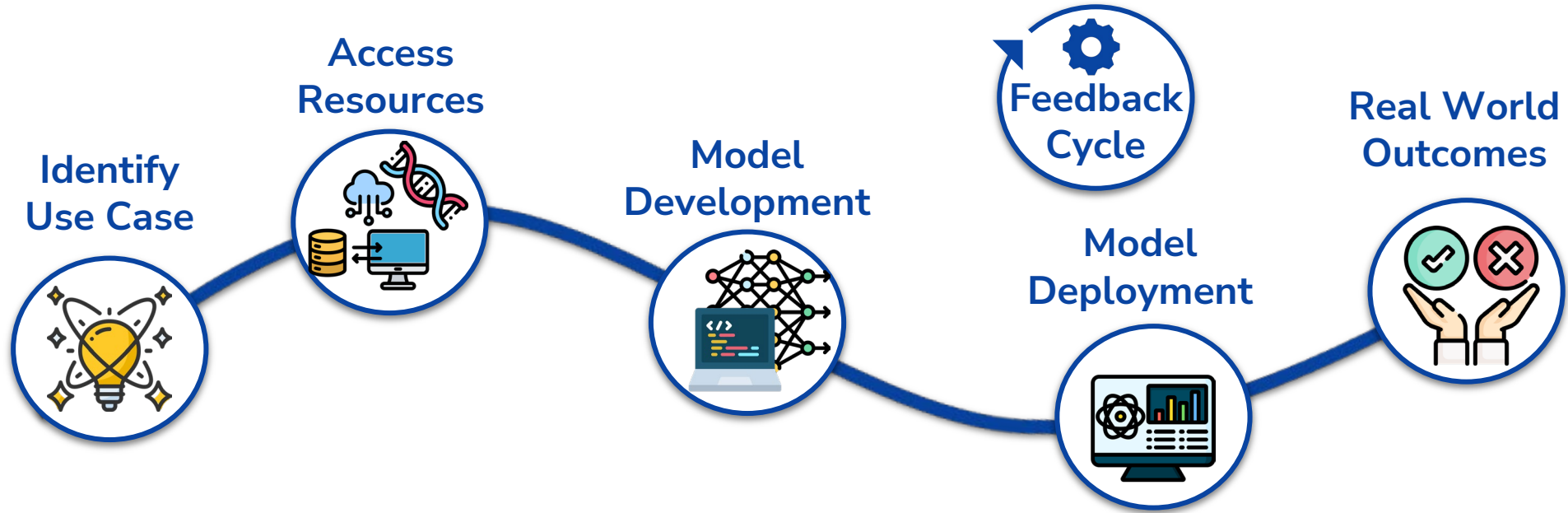
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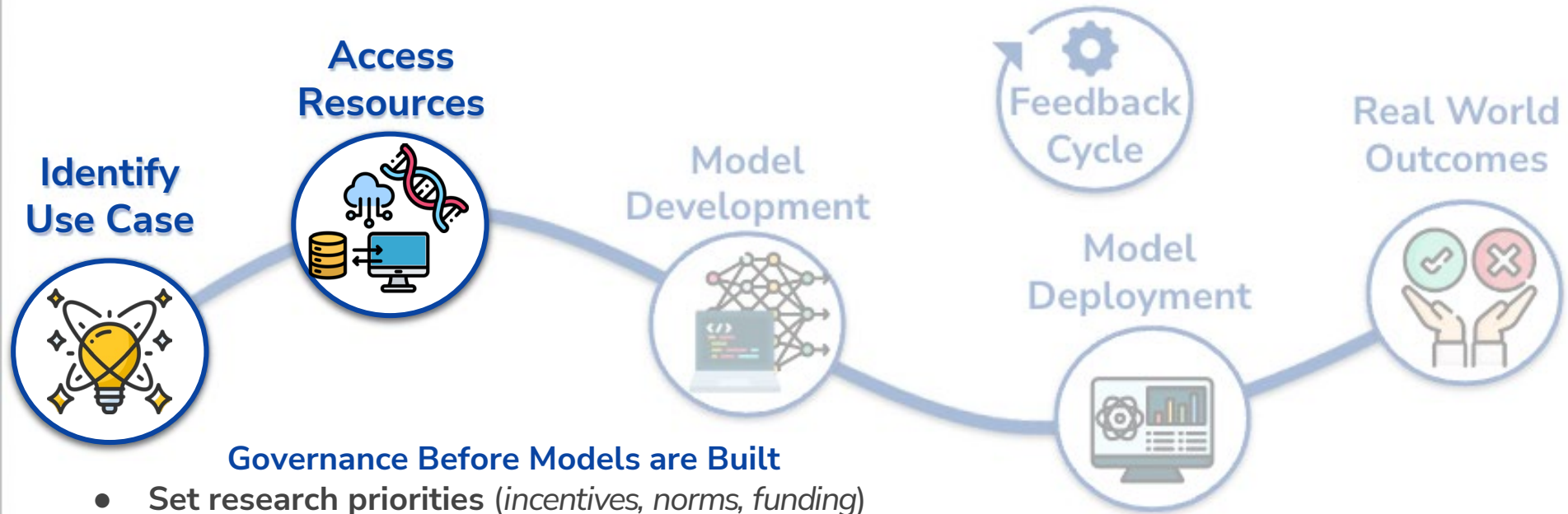
What is Governance?



The AI Spectrum: Nodes for Governance



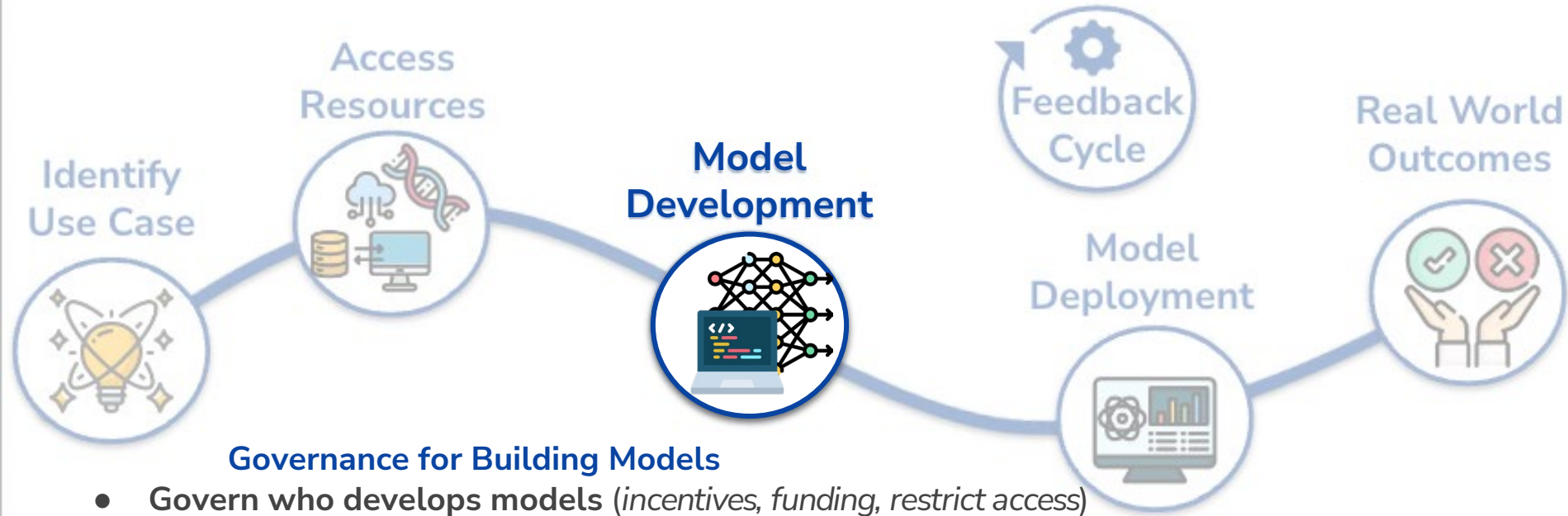
The AI Spectrum: Nodes for Governance



Governance Before Models are Built

- Set research priorities (*incentives, norms, funding*)
- Establish norms for responsible AI (*outreach, researcher engagement*)
- Create resources and facilitate or restrict their availability (*funding, government initiatives, public-private partnerships*)

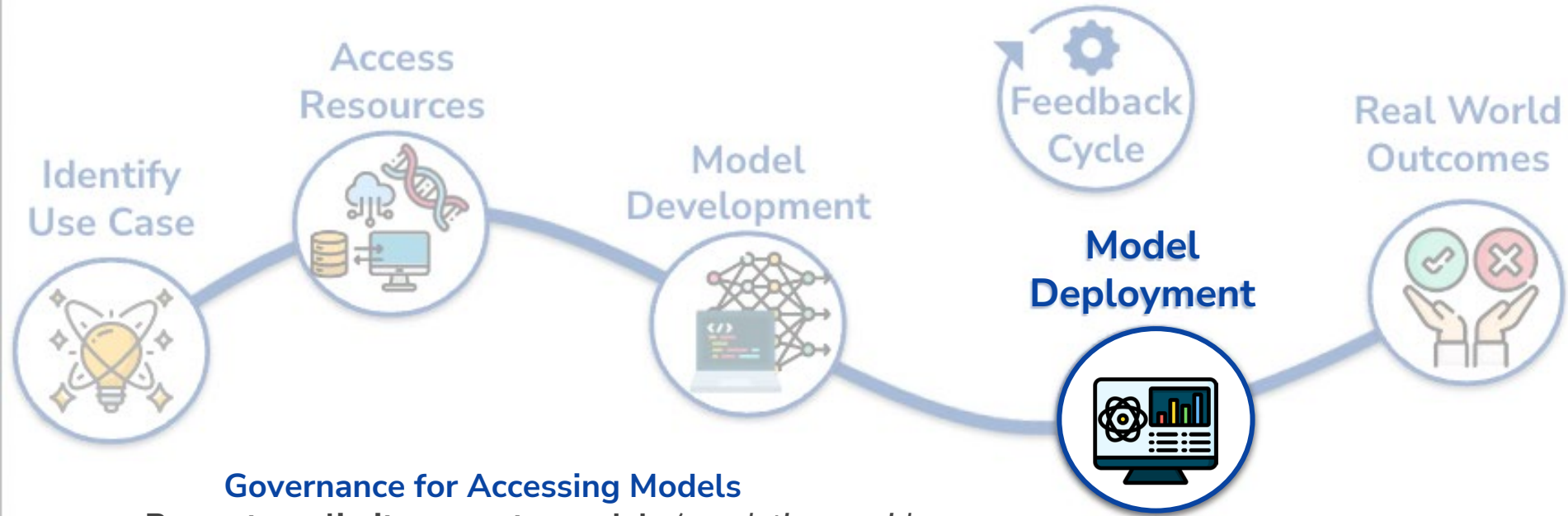
The AI Spectrum: Nodes for Governance



Governance for Building Models

- **Govern who develops models** (*incentives, funding, restrict access*)
- **Shape how models are developed** (*best practices, standards/specs*)
- **Assess models for specific outcomes** (*regulations, government initiatives, incentivize research*)

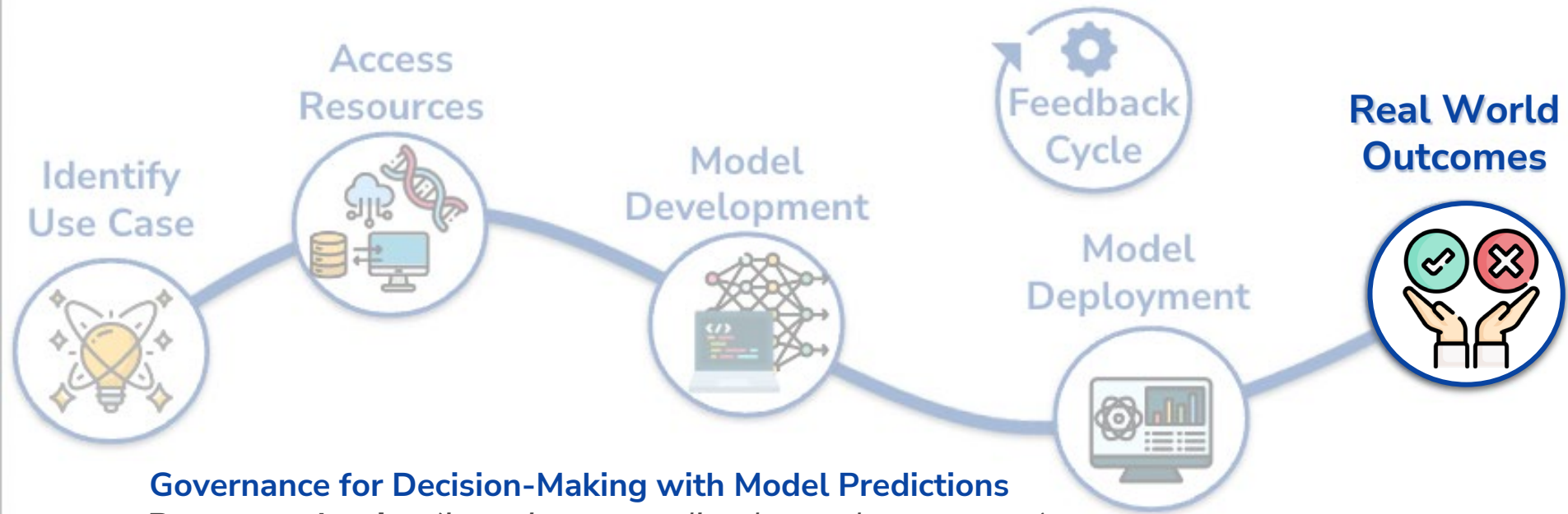
The AI Spectrum: Nodes for Governance



Governance for Accessing Models

- **Promote or limit access to models** (*regulations, guidance, incentives, best practices, outreach*)

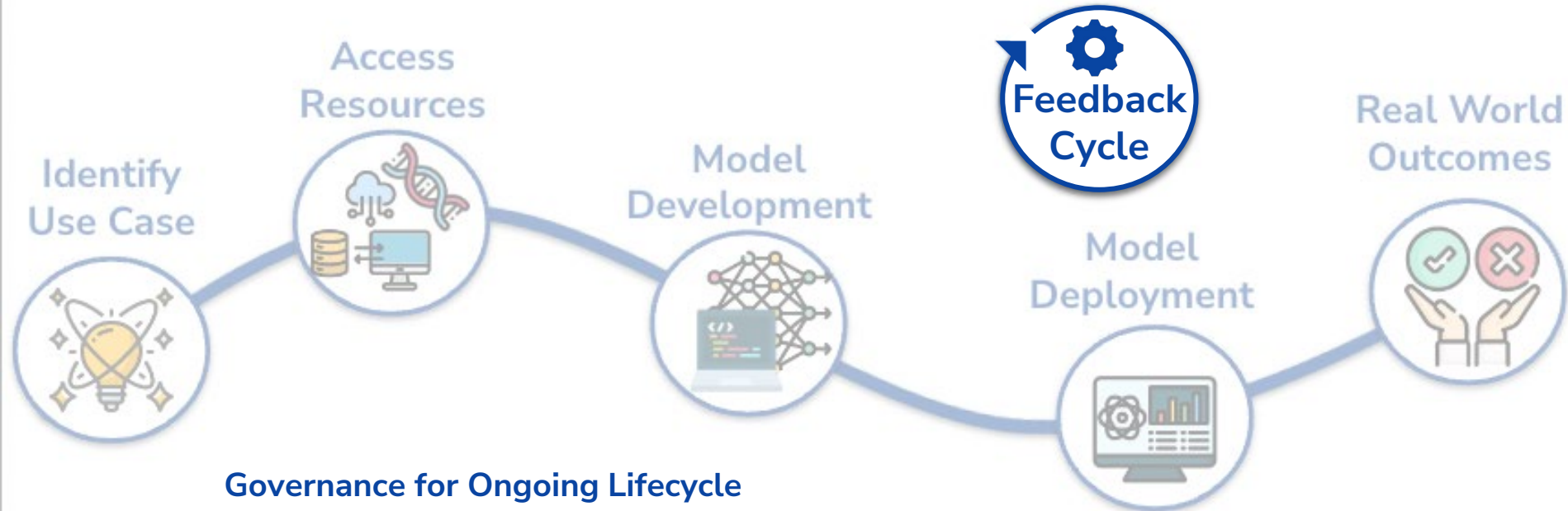
The AI Spectrum: Nodes for Governance



Governance for Decision-Making with Model Predictions

- **Promote adoption** (*incentives, streamline the regulatory process*)
- **Guidance for using predictions** (*regulations, norms, outreach, research*)

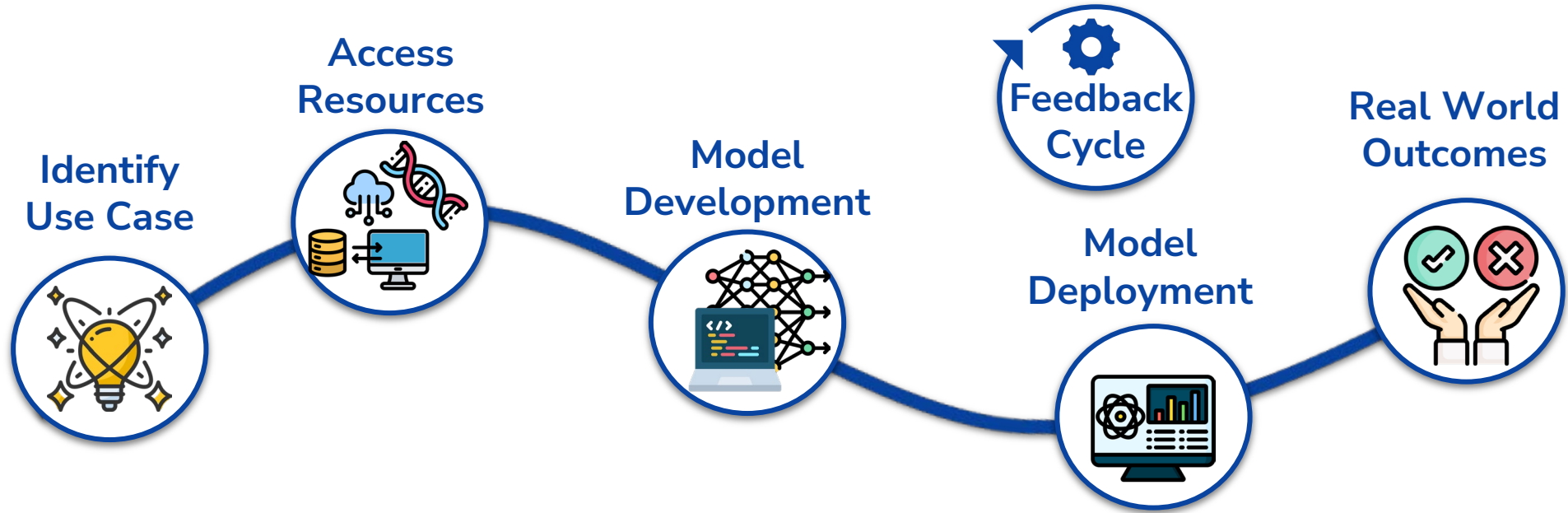
The AI Spectrum: Nodes for Governance



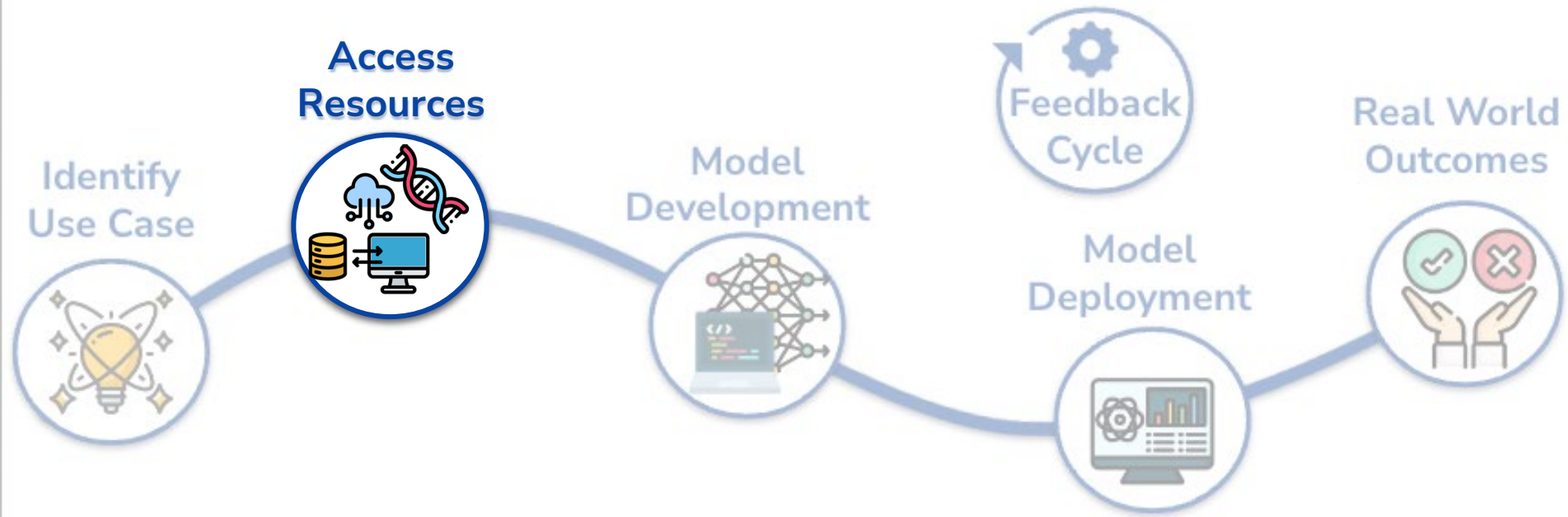
Governance for Ongoing Lifecycle

- **Collect information on outcomes** (*reporting infrastructure, outreach*)
- **Conduct research to understand outcomes** (*incentives, funding, outreach*)
- **Build on models with future development** (*incentives, funding, public-private partnerships*)

The AI Spectrum: Nodes for Governance



Case Study: Governing Data



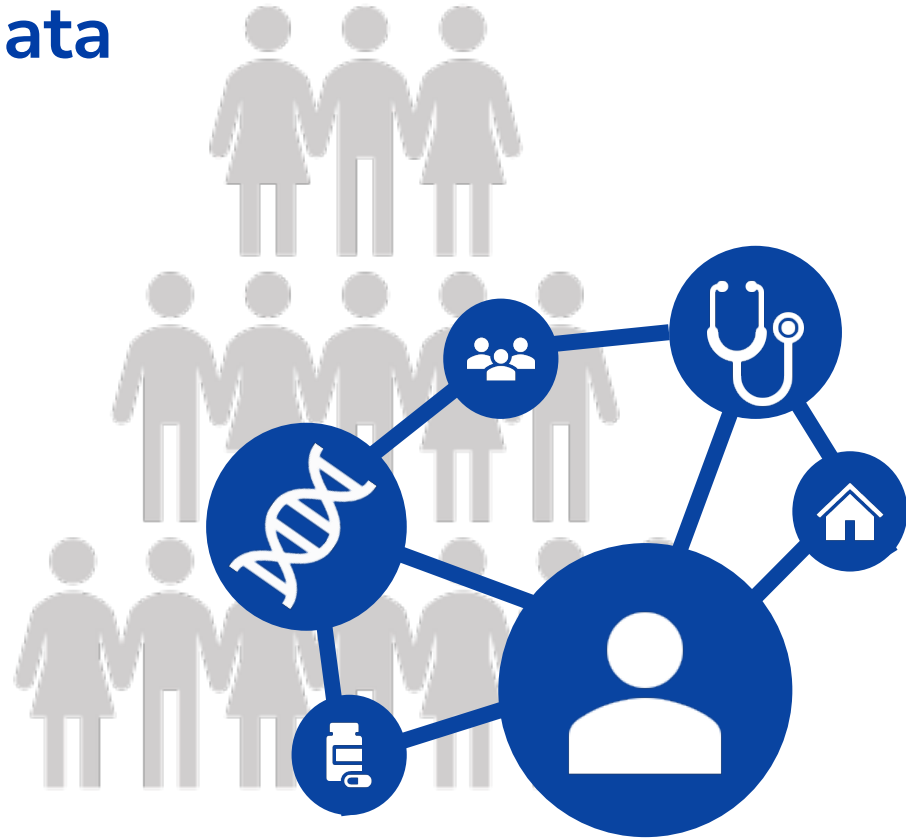
Case Study: Governing Data

Biodata: personal and/or biological data

- Medical history
- Genome sequences
- Test results
- Medical images
- Lifestyle factors

Why do we need governance for biodata?

- Prioritize research areas
- Risks to participants
- Input for future steps in AI development



Case Study: Governing Data

Governance Goals...



Protect Participants'
Privacy



Limit Data Bias

...and Options



Respect Participants'
Autonomy



Achieve Research
Breakthroughs

Takeaways and scene-setting:

- Governance is more than regulation
- Opportunity to promote, restrict, inform, encourage...
- Identify governance goals to choose appropriate tools

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