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Introduction to AI

• What AI does:

- Automates tasks and decisions typically requiring human intelligence (image recognition, analytics, predictions, etc.)
- $_{\circ}$ $\,$ Identifies patterns and extracts insights from data at scale
- $_{\circ}$ $\,$ Continuously learns and improves over time as it processes more data

• Key AI Technology includes:

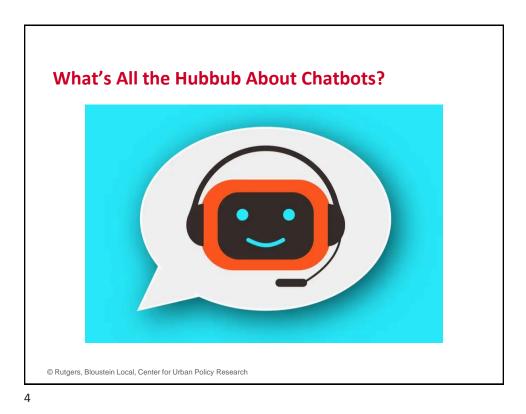
- Machine learning
- Natural language processing
- Robotics
- $_{\circ}$ Image (still and video) creation
- Computer vision

All of which enable computing devices machines to perceive their environment, learn from data, and make autonomous decisions.

• Importance in Government: automate routine tasks, gain insights from data, enhance decision-making, and improve citizen services, which theoretically, ultimately leads to more efficient and effective governance.

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About Chatbots

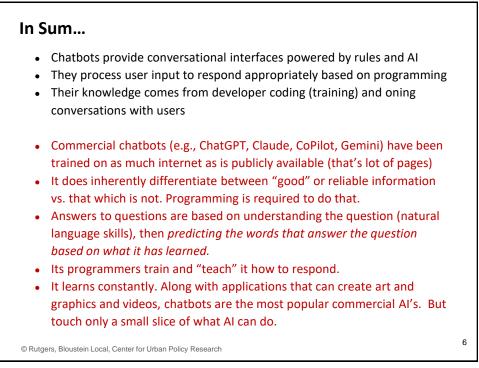
• What it does

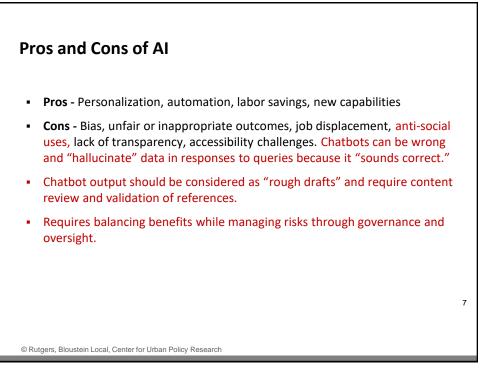
- Provides automated conversational experiences
- Completes simple tasks like looking up data and more complex ones like translating languages, including writing computer code
- Responds to user input and queries via "prompts" describing what the user wants to know or tells the bot to do.

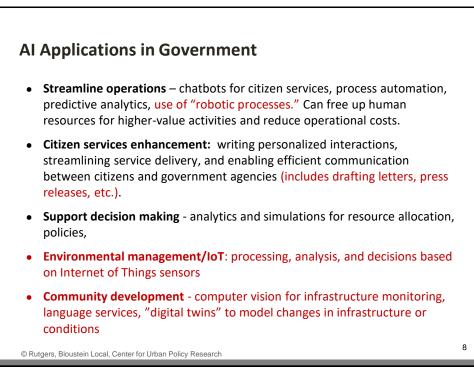
How it works

- Built using rules, decision trees and/or AI techniques
- Processes and analyzes user input
- Generates relevant responses based on its programming
- What it "knows"
 - Information, rules, decision logic provided by developers
 - Data and conversation patterns learned from users
 - $_{\circ}$ $\,$ Only what has been manually programmed or exposed through training

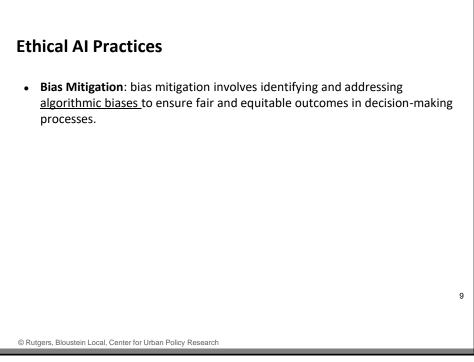
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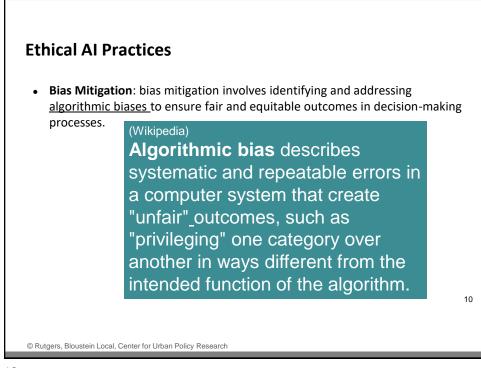


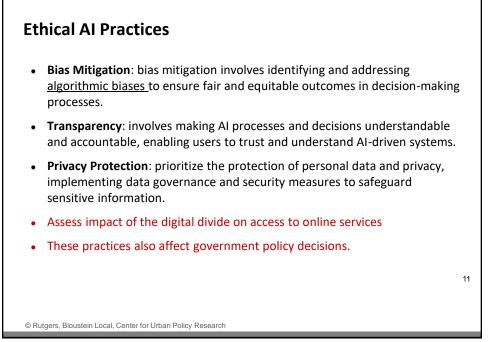


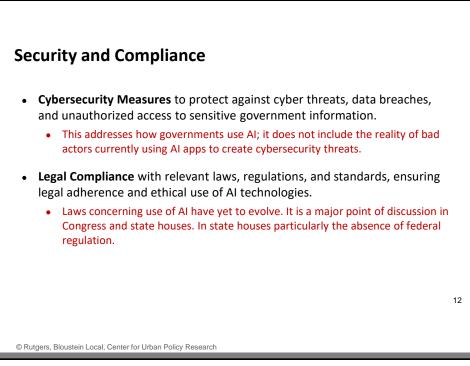


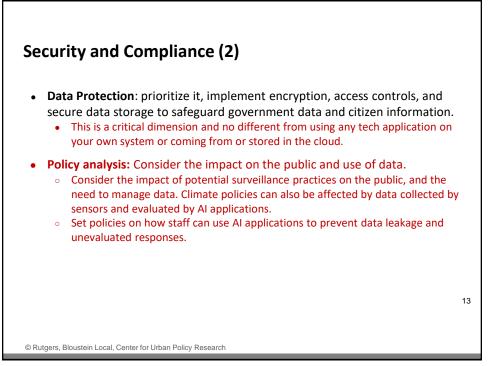




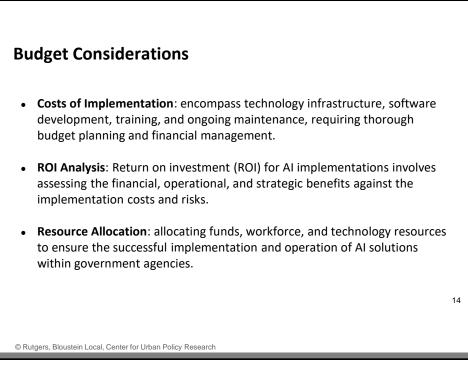
















- **Planning**: requires including defining objectives, assessing resource requirements, establishing clear timelines and milestones, and pre- and post- implementation training of the system. *Al just doesn't happen!*
- Integration with Existing Systems: entails compatibility assessments, data integration, and the development of interoperable AI solutions to ensure seamless integration and operation. Ongoing operations require monitoring and retraining of the system when necessary.
- **Training and Skill Development**: encompasses technical training, change management, and the cultivation of an AI and innovation focused workforce.

This is about introducing innovation in government. There are approaches to that.

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