

**GENERATIVE AI AND THE ETHICS INVOLVED**

UT LAW CLE

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1

**GENERATIVE AI AND THE ETHICS INVOLVED**  
SPEAKERS



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PLATFORMS

2

## GENERATIVE AI AND THE ETHICS INVOLVED

### TODAY'S DISCUSSION

- 1** Overview of Generative AI (How it works)  
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- 2** Transformative Potential of AI (What it can do)  
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- 3** Ethical Pitfalls of Generative AI (What to look out for)  
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- 4** Legal Ethics and Other Regulatory Considerations (Why you should care)  
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- 5** Addressing the Ethical Challenges (How to approach governance)  
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- 6** Demo of How Generative AI Works

3

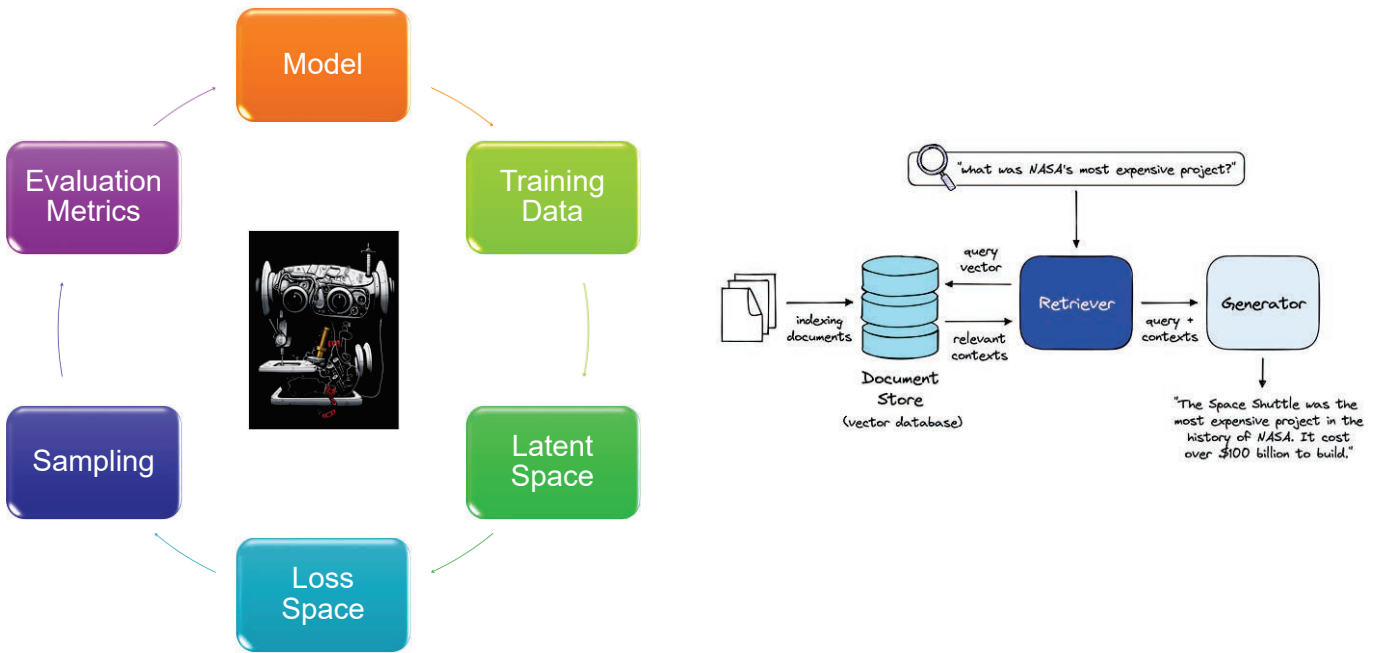
## GENERATIVE AI AND THE ETHICS INVOLVED

### QUICK POLLS

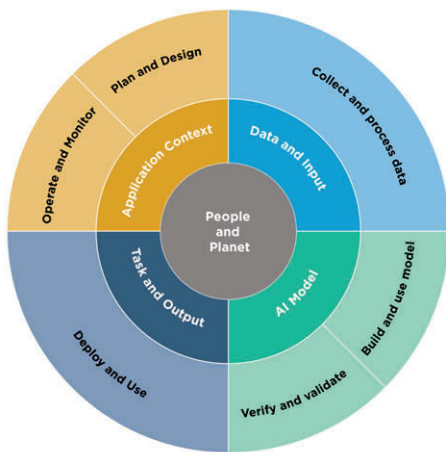
1. How many of you have used generative AI (e.g., ChatGPT, Stable Diffusion, Midjourney)?
2. Has your organization issued guidelines on the use of AI?
3. Do you think we will have U.S. federal AI regulations before 2024?

4

# OVERVIEW OF GENERATIVE AI BASIC COMPONENTS



# OVERVIEW OF GENERATIVE AI UNRAVELING THE ROLES OF AI ACTORS THROUGHOUT THE LIFECYCLE



| Key Dimensions        | Application Context   | Data & Input   | AI Model   | AI Model  | Task & Output  | Application Context  | People & Planet   |
|-----------------------|---|--|--|---|--|--|---|
| Lifecycle Stage       | Plan and Design   | Collect and Process Data   | Build and Use Model  | Verify and Validate   | Deploy and Use   | Operate and Monitor  | Use or Impacted by  |
| TEVV                  | TEVV includes audit & impact assessment   | TEVV includes internal & external validation   | TEVV includes model testing  | TEVV includes model testing   | TEVV includes integration, compliance testing & validation   | TEVV includes audit & impact assessment  | TEVV includes audit & impact assessment   |
| Activities            | Articulate and document the system's concept and objectives, underlying assumptions, and context in light of legal and regulatory requirements and ethical considerations.  | Gather, validate, and clean data and document the metadata and characteristics of the dataset, in light of objectives, legal and ethical considerations. | Create or select algorithms; train models.   | Verify & validate, calibrate, and interpret model output.   | Pilot, check compatibility with legacy systems, verify regulatory compliance, manage organizational change, and evaluate user experience.  | Operate the AI system and continuously assess its recommendations and impacts (both intended and unintended) in light of objectives, legal and regulatory requirements, and ethical considerations.  | Use system/technology; monitor & assess impacts; seek mitigation of impacts, advocate for rights. |
| Representative Actors | System operators; end users; domain experts; AI designers; impact assessors; TEVV experts; product managers; compliance experts; auditors; governance experts; organizational management; C-suite executives; impacted individuals/communities; evaluators. | Data scientists; data engineers; data providers; domain experts; socio-cultural analysts; human factors experts; TEVV experts.                           | Modelers; model engineers; data scientists; developers; domain experts; with consultation of socio-cultural analysts familiar with the application context and TEVV experts. | System integrators; developers; systems engineers; software engineers; domain experts; procurement experts; third-party suppliers; C-suite executives, with consultation of human factors experts, socio-cultural analysts, governance experts, TEVV experts. | System operators, end users, and practitioners; domain experts; AI designers; impact assessors; TEVV experts; system funders; product managers; compliance experts; auditors; governance experts; organizational management; impacted individuals/communities; evaluators. | End users, operators, and practitioners; impacted individuals/communities; general public; policy makers; standards organizations; trade associations; advocacy groups; environmental organizations; civil society organizations; researchers. |   |

Source: NIST

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