

Reimagining Local Government: How AI Technology is Transforming the County Operations Landscape

Oct 3, 2023

Michigan Association of Counties – 2023
Annual Conference

Rita D Reynolds, CIO
NACo



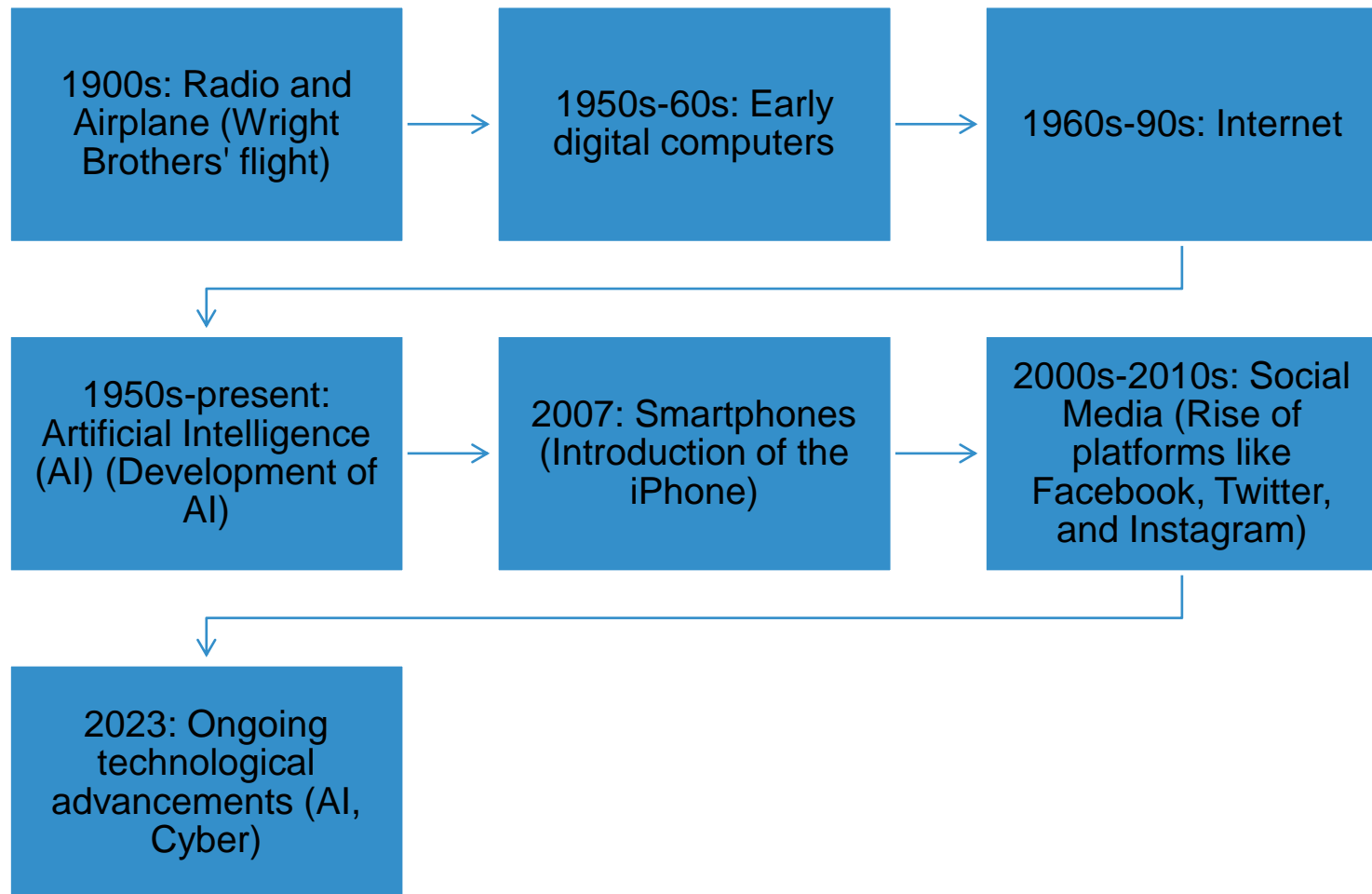
Rita D Reynolds, CIO
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• Introductions

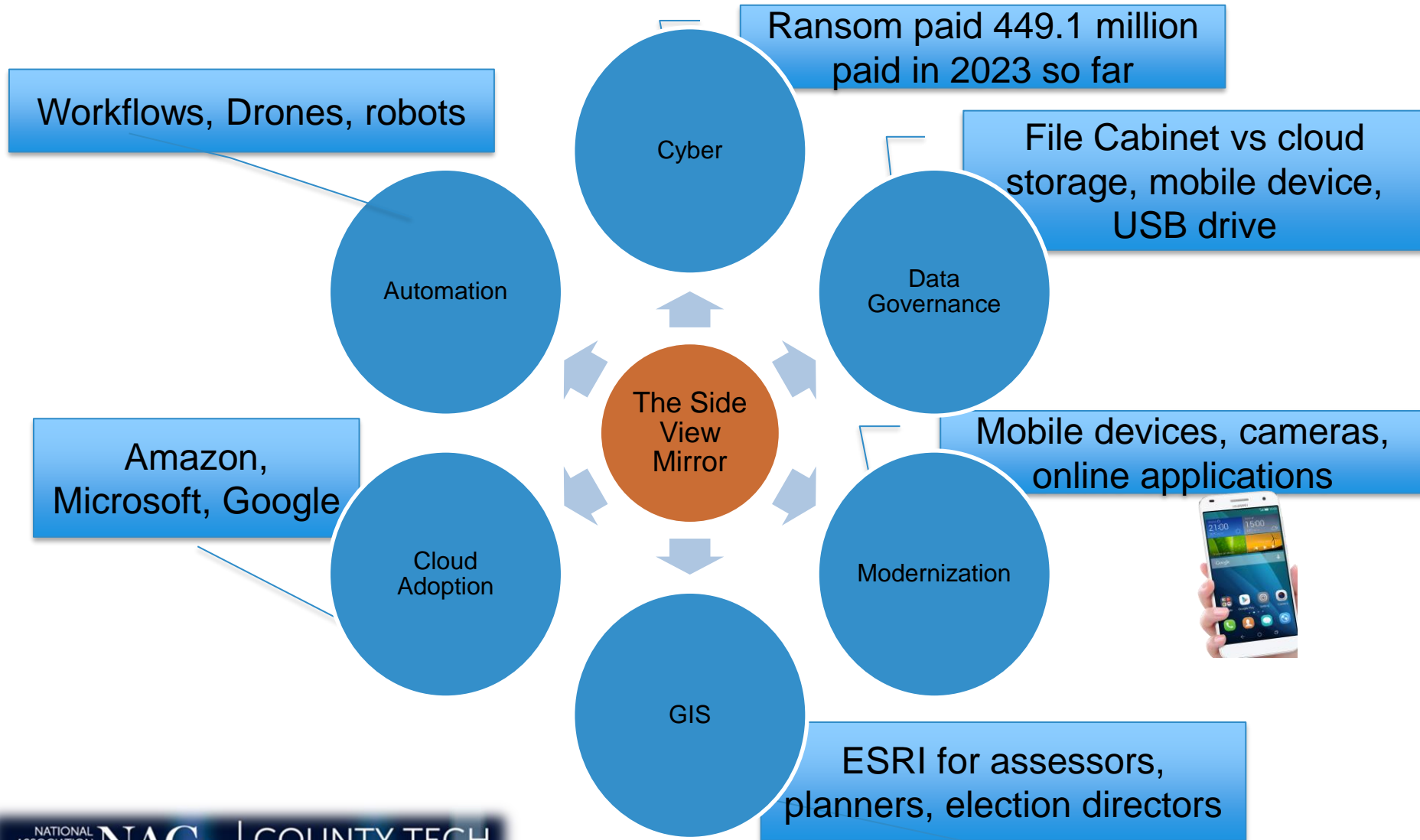
- CCAP Experience – 20 + years
- NACo – July 1, 2019
- Background
 - Database Development
 - Software Programs
 - Technology Strategy
 - NACo Tech Xchange and county IT leader engagement
- Free Time
 - I'm a runner



Technology History



Technology - The Landscape



County Challenges

Broadband
availability
and
accessibility

Cyber
Attacks

Workforce
shortages

Budgetary
constraints

The Future(is Here Now)



Counties are Confronted with Today

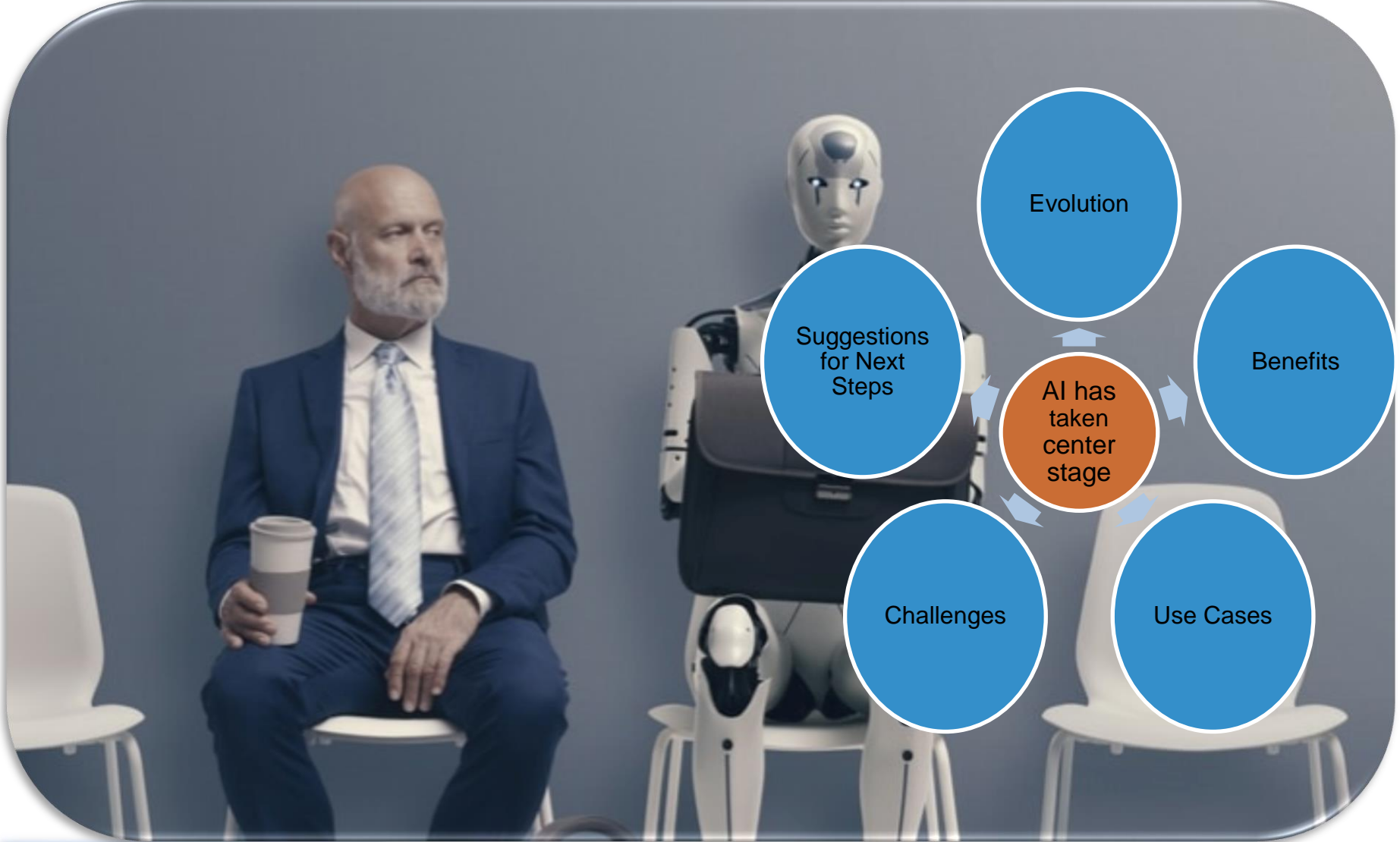
Staffing
Shortages

Budgetary
Constraints

Cyber security
enhancements

Broadband
challenges

The Future(is Here Now)



A brief history of AI



Artificial Intelligence

Machine Learning

Deep Learning

Generative AI

1950s

Artificial Intelligence

the field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence.

1959

Machine Learning

subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions.

2017

Deep Learning

a machine learning technique in which layers of neural networks are used to process data and make decisions.

2021

Generative AI

create new written, visual, and auditory content given prompts or existing data.

A brief history of AI at NACo

Artificial Intelligence

Machine Learning

Deep Learning

Generative AI

Nov, 2023

Generative AI

ChatGPT is introduced to the world.

Jan, 2023

NACo Tech Brief on ChatGPT

subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions.

May, 2023

NACo Forms AI Exploratory Committee

a machine learning technique in which layers of neural networks are used to process data and make decisions.

First In Person Meeting of NACO AI Exploratory Committee

Microsoft and CAI present current environment of generative AI – benefits, challenges, approach

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And the AI
impact is real



Carmax estimates an individual would take 11 years to do what Azure OpenAI Service was able to do in days



Progressive is saving \$10M annually with AI-powered chatbots



EY is saving 250K hours of manual work per client using intelligent document automation

Counties

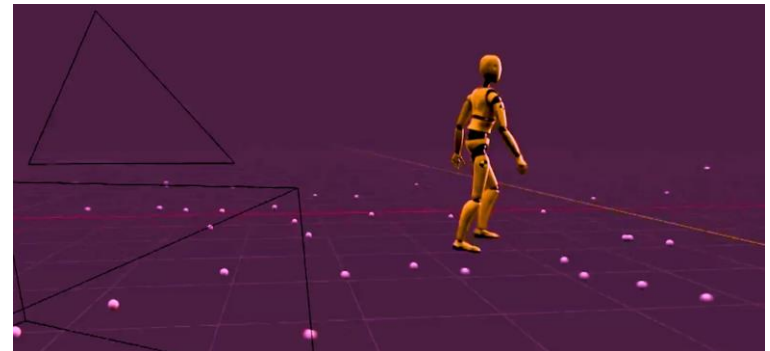
Estimated time savings from weeks to days or as little as hours

The Future (is here now)



“We recognize both the potential benefits and risks these tools enable,” Newsom said in a statement accompanying his order. “We’re neither frozen by the fears nor hypnotized by the upside. We’re taking a clear-eyed, humble approach to this world-changing technology. Asking questions. Seeking answers from experts. Focused on shaping the future of ethical, transparent and trustworthy AI.”

Gov. Gavin Newsom, California
California issued an executive order on
Sept 6, 2023

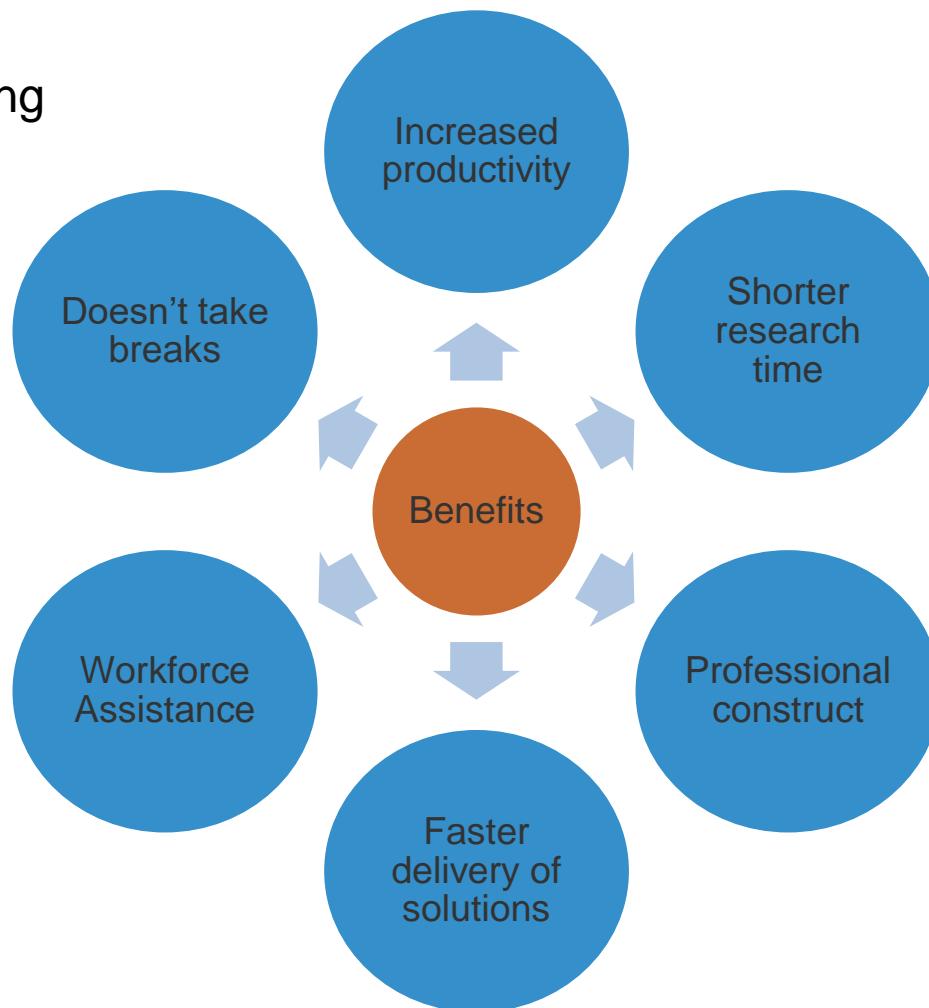


Benefits

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Benefits are Significant, life changing



The Future (is here now)



Text
generation



Q&A



Text
summarization



Text
extraction



Paraphrase
rephrase



Search



Code
generation



Image
generation



Image
classification



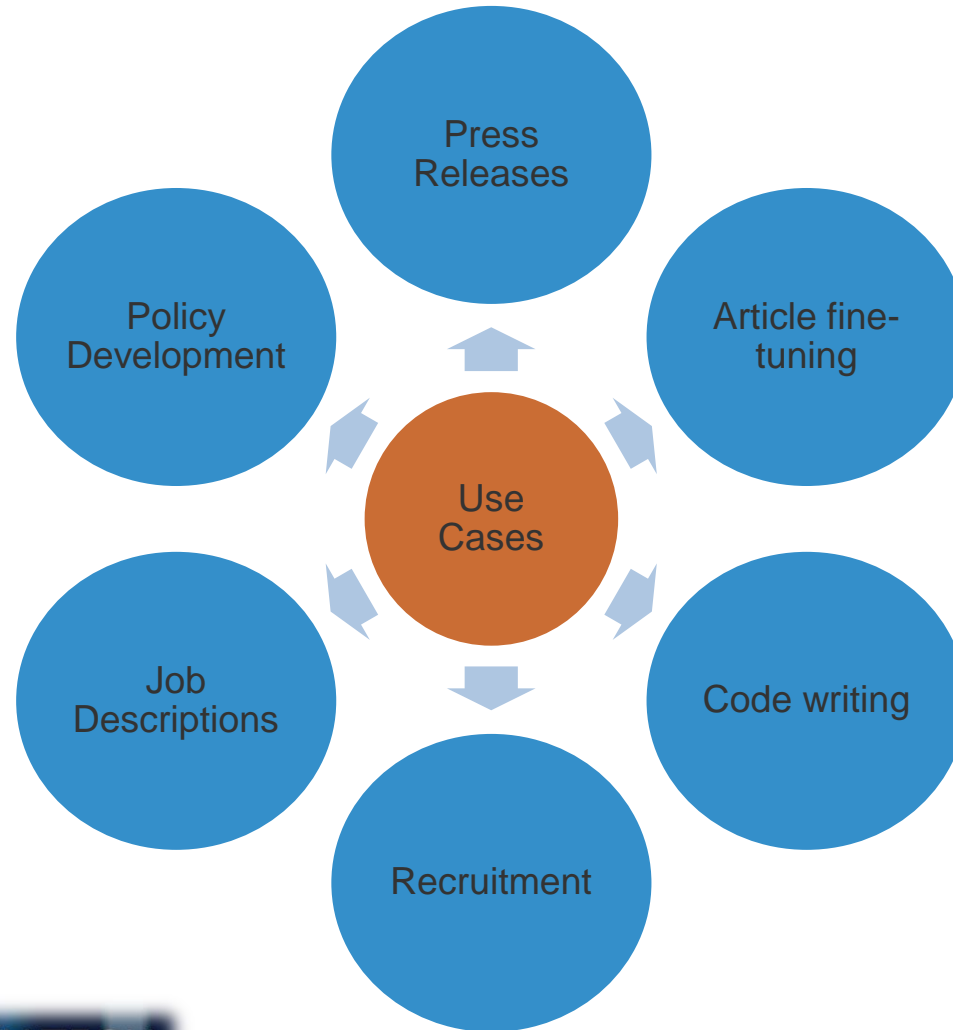
Audio
generation



Video
generation



The Future (is here now)

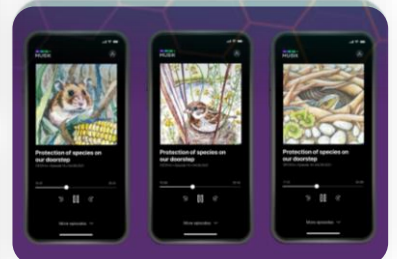
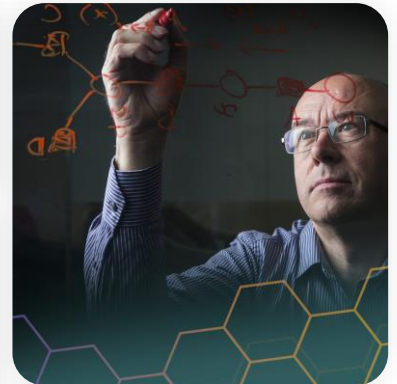
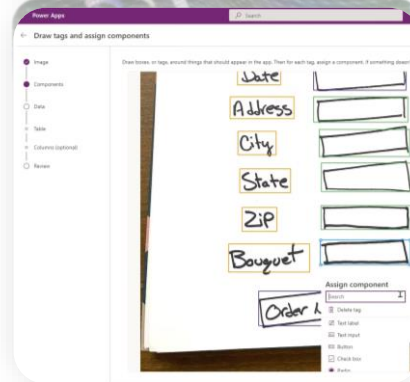
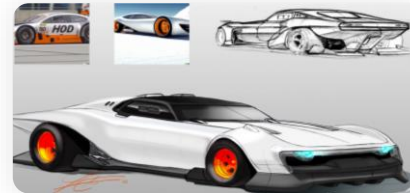


The Future (is here now)



What can these new AI services do?

- ✓ **Natural language chatbots:** everything from customer service to personalized tutoring to training for suicide prevention counselors.
- ✓ **Advanced search capabilities:** searching not just for links, but for answers.
- ✓ **Generate text:** emails, draft legislation, contracts, screenplays.
- ✓ **Real time** translation, transcription, analysis, and summaries of content (audio, video, text).
- ✓ **Image** recognition and generation.

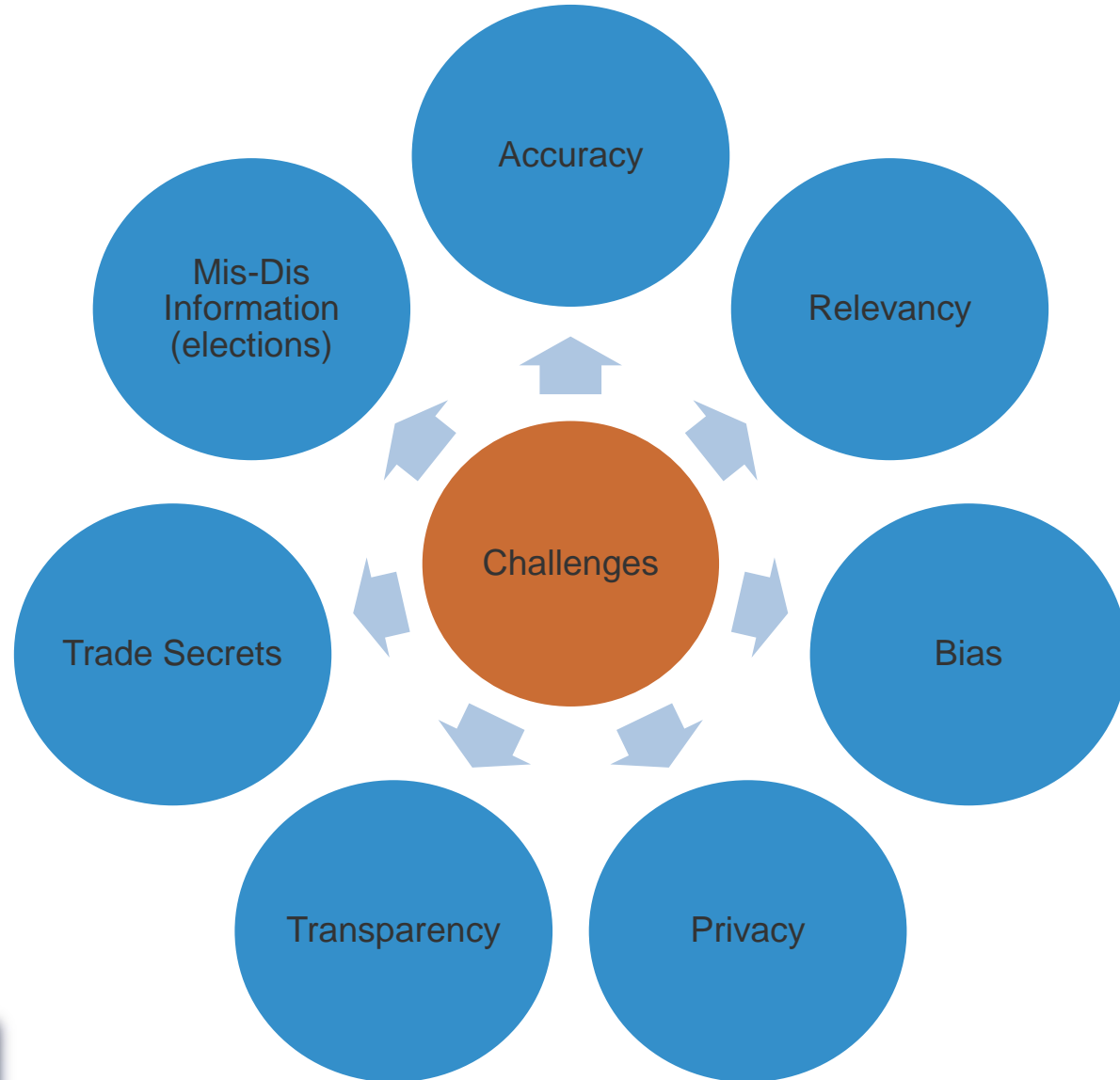


The Future (is here now)

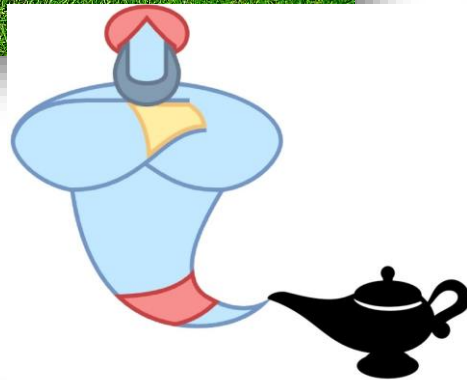


Challenges

Recently a New York attorney representing a client's injury claim relied on a conversational chatbot to conduct his legal research. The federal judge overseeing the suit noted that six of the precedents quoted in his brief were bogus



The Future (is here now)



THAT
GENIE
IS OUT
OF THE
BOTTLE

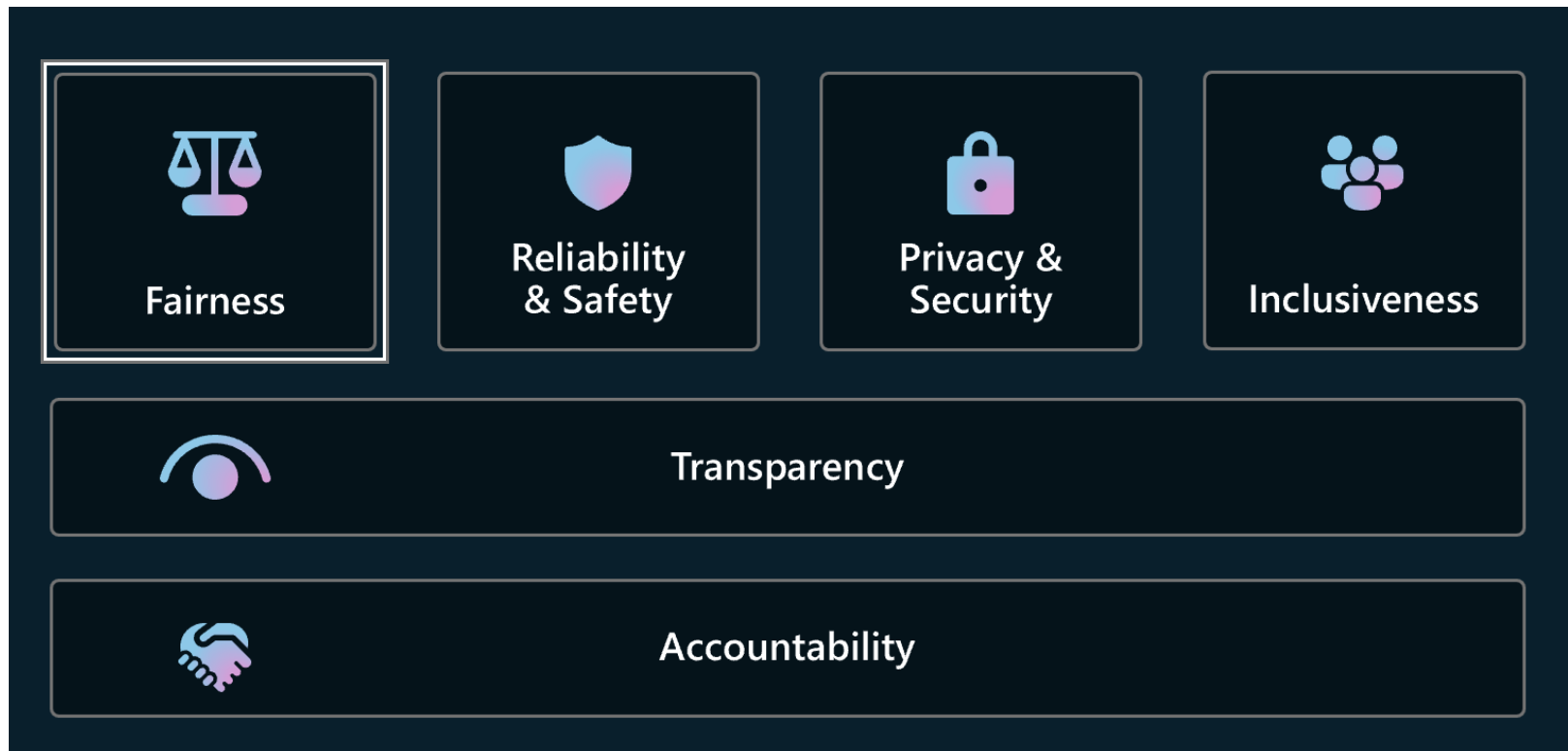
Idioms Explained



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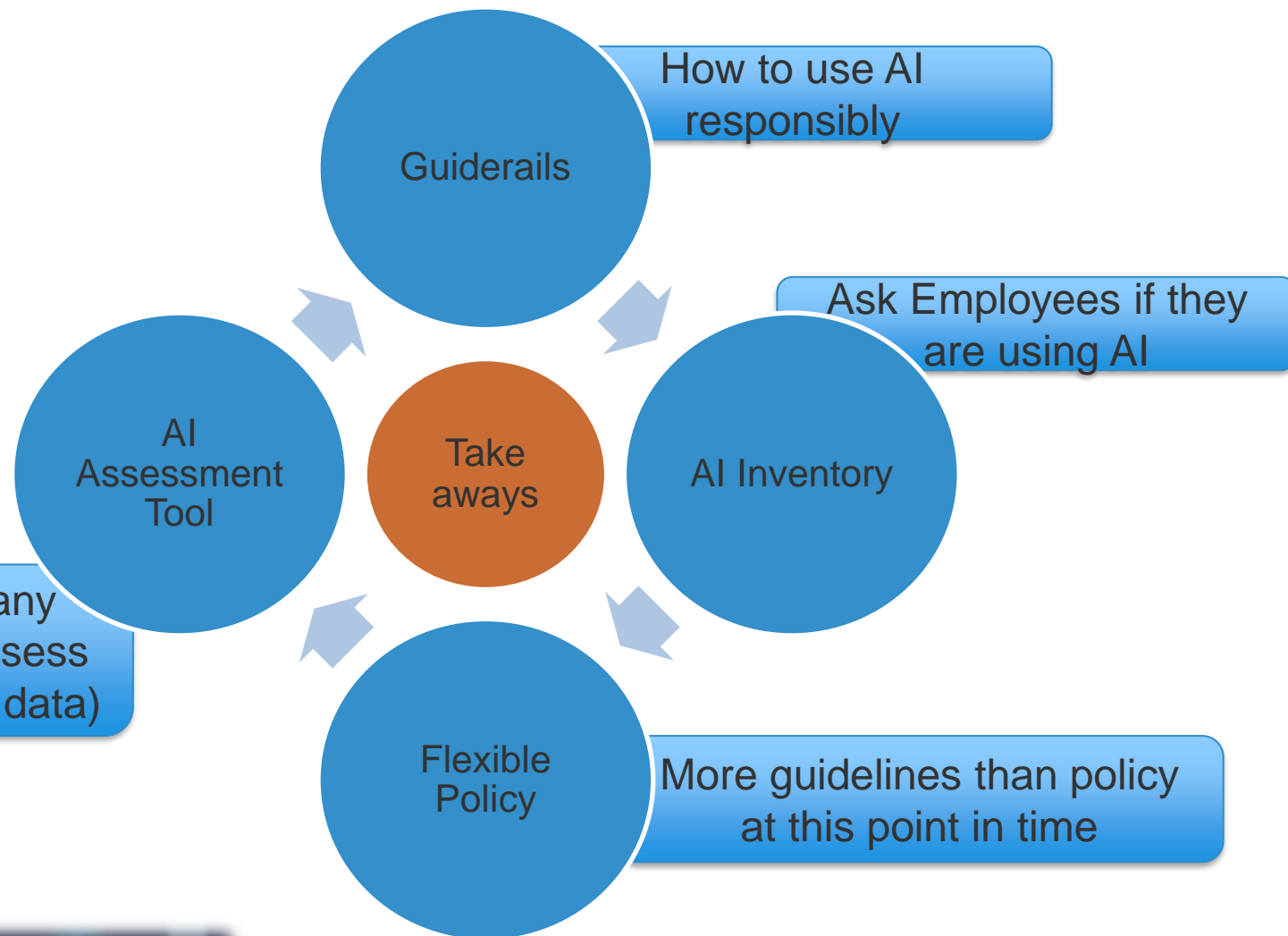


Microsoft's AI principles



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Take
aways



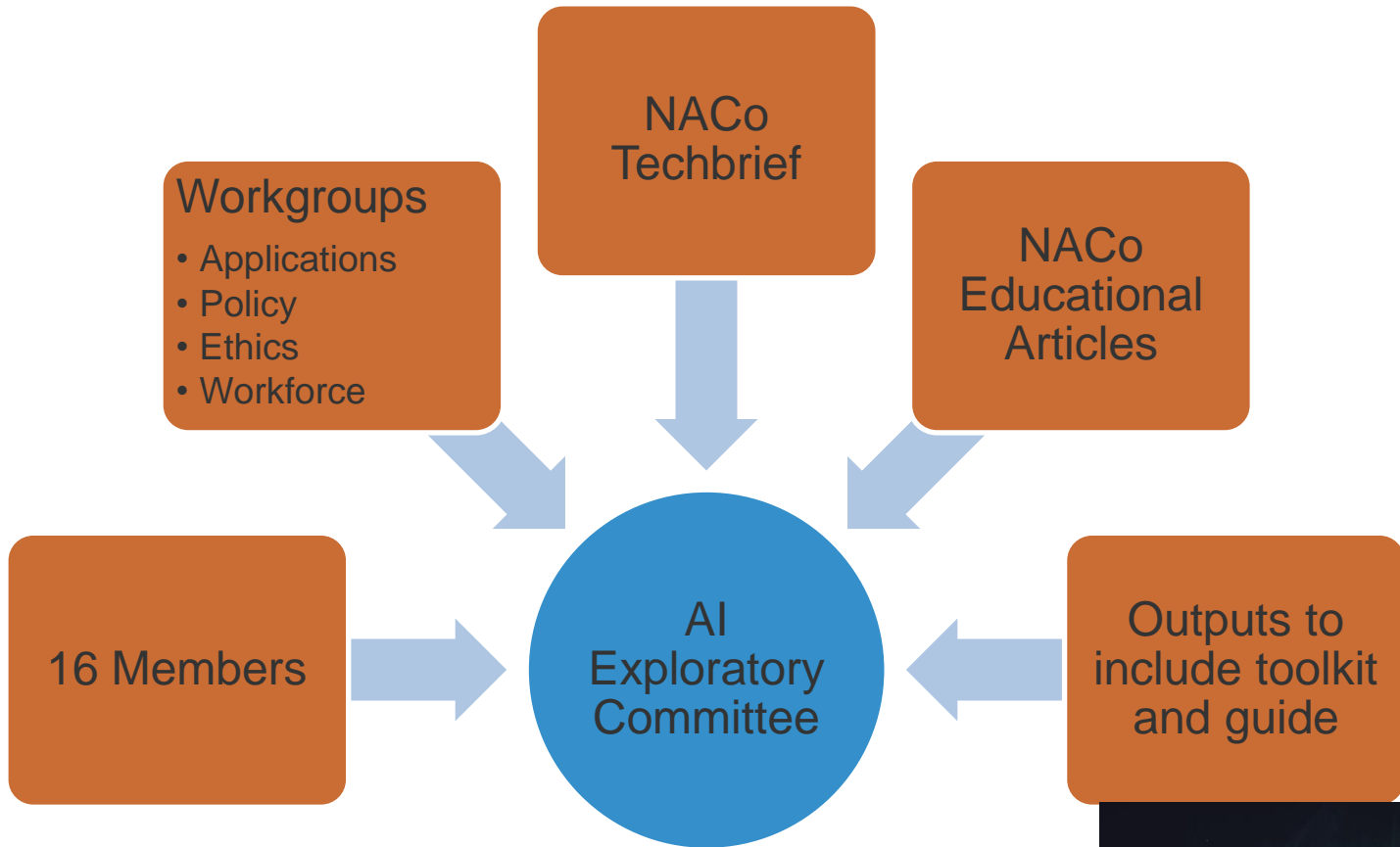
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Guidelines

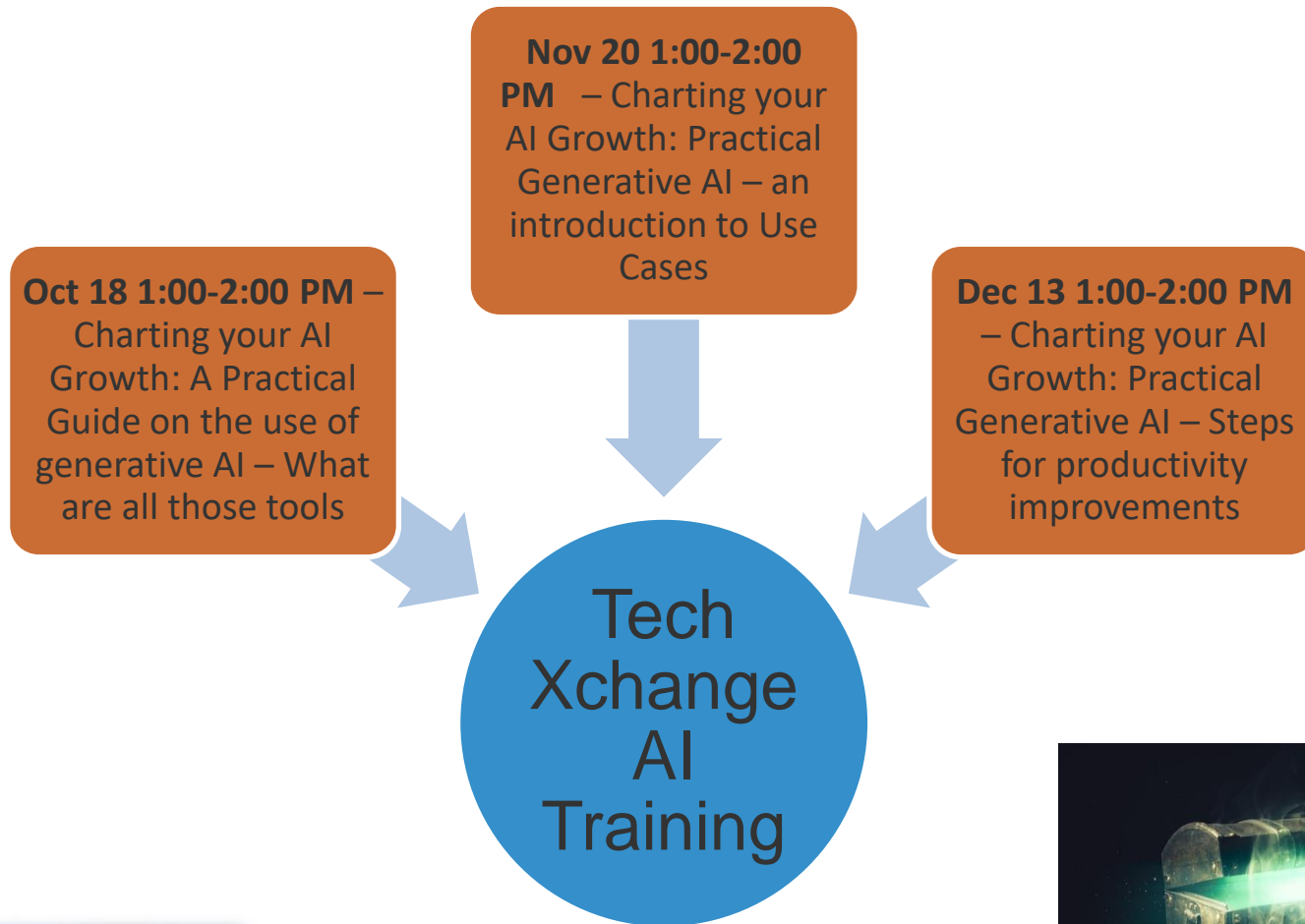


Would you put
this in a memo
to all staff?

NACo's AI Exploratory Committee



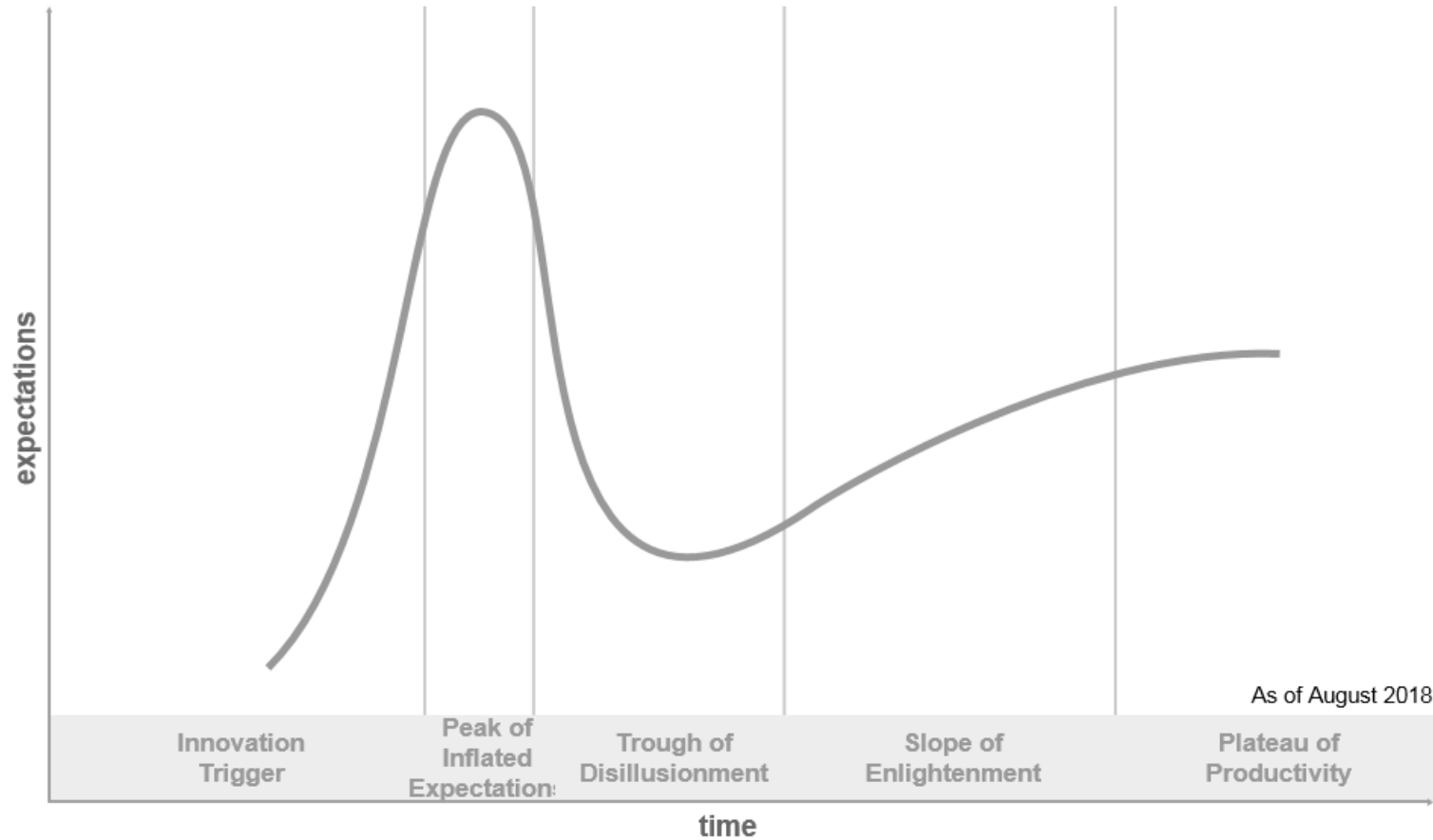
NACo's AI Exploratory Committee



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The Hype Cycle



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Thank You

Questions?

Rita Reynolds, CIO, NACo

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THERE'S A REASON
the windshield is so much bigger
than the rear view mirror



WHERE YOU'RE HEADED
is much more important
than what you've left behind

LIFT INSPIRE SHARE