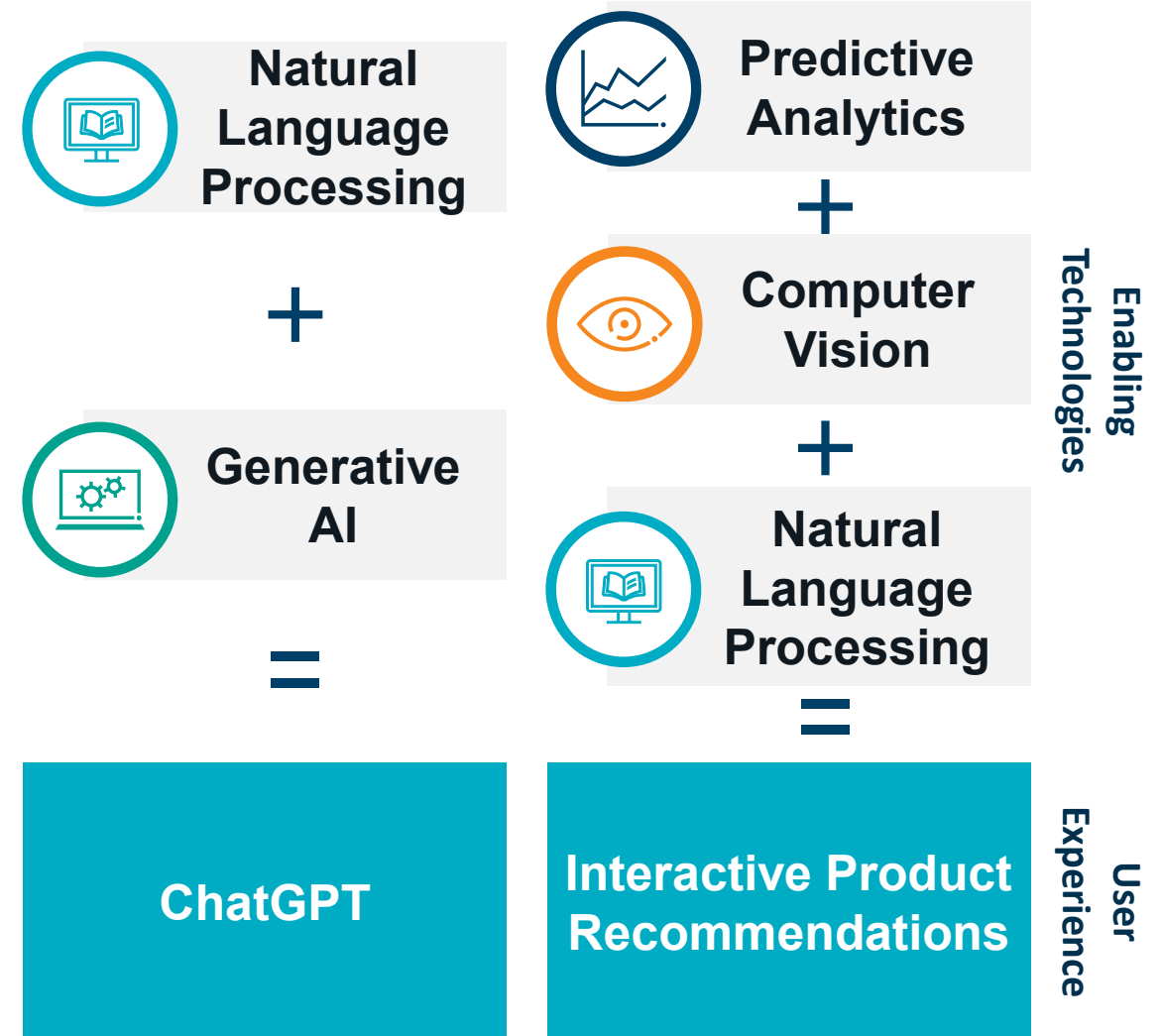


# AI & Quantum Trailblazers in Chicago: Fostering Innovation and Enhancing Governance

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# BETTER TOGETHER: AI BUILDING BLOCKS

<b>Predictive Analytics</b> <i>Demand Forecasting</i>	<b>Computer Vision</b> <i>Parking Occupancy</i>	<b>Natural Language Processing</b> <i>Disease State ID</i>
<b>Audio</b> <i>Tone Analysis</i>	<b>Generative AI</b> <i>Image Creation</i>	



# GET STARTED WITH GENERATIVE AI: 3 APPROACHES

## Accelerated Strategy



Identify



Decompose



Prioritize and Initialize



Pilot



Adapt and Reflect

## Hack-a-thon



Establish a Challenge Statement



Prepare an Environment



Formulate Evaluation Process



Communicate and Market



Define Teams



Execute Hack-a-thon



Evaluate Results

## Rapid Prototyping



Challenge and Problem Statement



Refinement and Prioritization



Rapid Prototyping



Evaluate and Test

To begin your AI journey contact [christine.livingston@protiviti.com](mailto:christine.livingston@protiviti.com)

# REGULATORY ACTIVITY: TOO MUCH TO EVEN SEE IT!

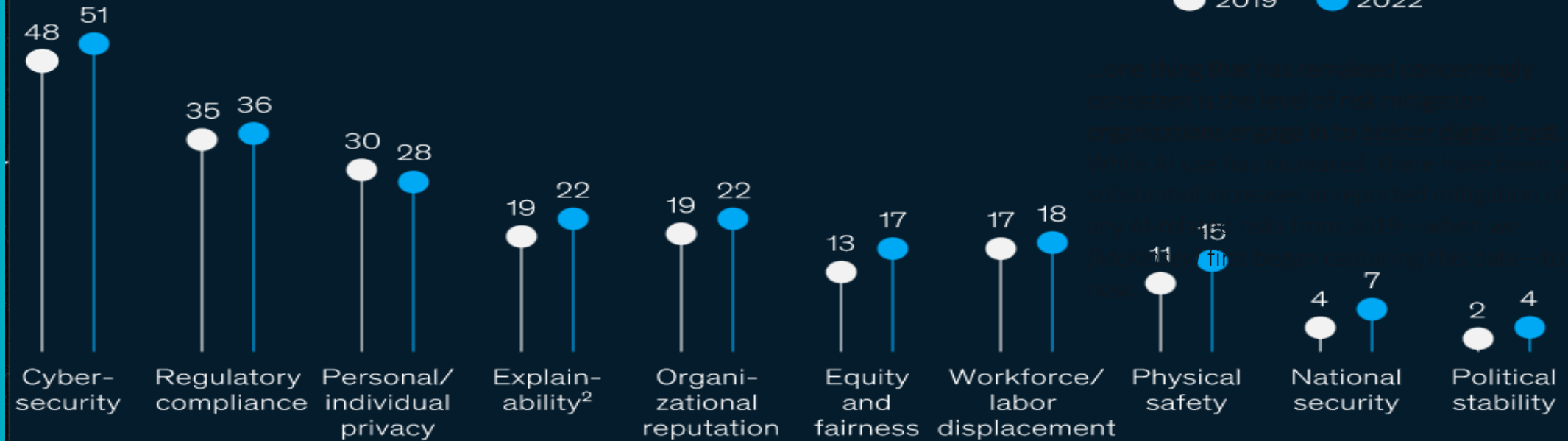
Proposed		Established		
<p><b>US: Algorithmic Accountability Act (AAA) of 2022</b></p> <ul style="list-style-type: none"> <li>Proposed by a committee of two US Senators and a representative of the House.</li> <li>High level overview of AI governance, leading to areas that are open for interpretation</li> <li>Implementation is delegated to the Federal Trade Commission (FTC) for monitoring</li> <li>Requires 'impact assessments' both at deployment and periodically post deployment.</li> <li>Framed in terms of 'ADS' and 'critical decision processes' throughout (considered more 'future proof')</li> <li>Scoped for 'large companies' that 'employ ADS to make critical decisions'</li> </ul>	<p><b>EU: Artificial Intelligence Act (AIA / AI Act)</b></p> <ul style="list-style-type: none"> <li>Proposed by the EU's executive branch.</li> <li>Detailed requirements associated with ADS usage and enforcement</li> <li>Mandates an organization to perform 'conformity assessments' at deployment and 'post-market monitoring' periodically.</li> <li>Framed in terms of 'high-risk AI systems' throughout – which may end up resulting in a reduced scope.</li> <li>Offers support for small and medium sized enterprises (SMEs) to reduce their costs for ensuring and demonstrating compliance.</li> </ul>	<p><b>United States</b></p> <ul style="list-style-type: none"> <li>Fair Credit Reporting Act (FCRA) – 1970</li> <li>Health Insurance Portability and Accountability Act (HIPAA) – 1996</li> <li>General Data Protection Regulation (GDPR) – 2018</li> <li>National Institute of Standards and Technology (NIST) AI standards – 2019</li> <li>Algorithmic Accountability Act – 2019</li> <li>National AI Initiative Act – 2021</li> <li>Request for Information and Comment on Financial Institutions' Use of Artificial Intelligence, Including Machine Learning – 2021</li> </ul>	<p><b>European Union</b></p> <ul style="list-style-type: none"> <li>General Data Protection Regulation (GDPR) – 2018</li> <li>High-Level Expert Group on Artificial Intelligence – 2018</li> <li>AI Ethics Guidelines – 2019</li> <li>Platform-to-Business Regulation – 2019</li> <li>Proposal for a Regulation on Artificial Intelligence – 2021</li> </ul>	<p><b>United Kingdom</b></p> <ul style="list-style-type: none"> <li>The Centre for Data Ethics and Innovation – 2018</li> <li>The UK AI Sector Deal - 2018: In 2018</li> <li>The Data Protection Act 2018 – 2018</li> <li>The UK AI Code of Conduct – 2020</li> <li>The UK AI Ethics Guidelines – 2021</li> </ul>

# AI RISK MITIGATION: NOT MUCH PROGRESS

There has been no substantial increase in organizations' reported mitigation of AI-related risks.

AI risks that organizations consider relevant and are working to mitigate, % of respondents<sup>1</sup>

● 2019 ● 2022



The only risk that has remained concerning is Cyber-security, which has increased from 48% in 2019 to 51% in 2022. All other risks have either decreased or remained the same.

<sup>1</sup>Question was asked only of respondents who said their organizations had adopted AI in at least one function; n = 1,151. Respondents who said "don't know/not applicable" are not shown.

<sup>2</sup>That is, the ability to explain how AI models come to their decisions.

# THREATS OF AI IN THE SPOTLIGHT

What does  
the future of  
**responsible**  
**AI** look like?



Transparency



Privacy & Data  
Security



Fairness & Bias  
Mitigation



Accountability

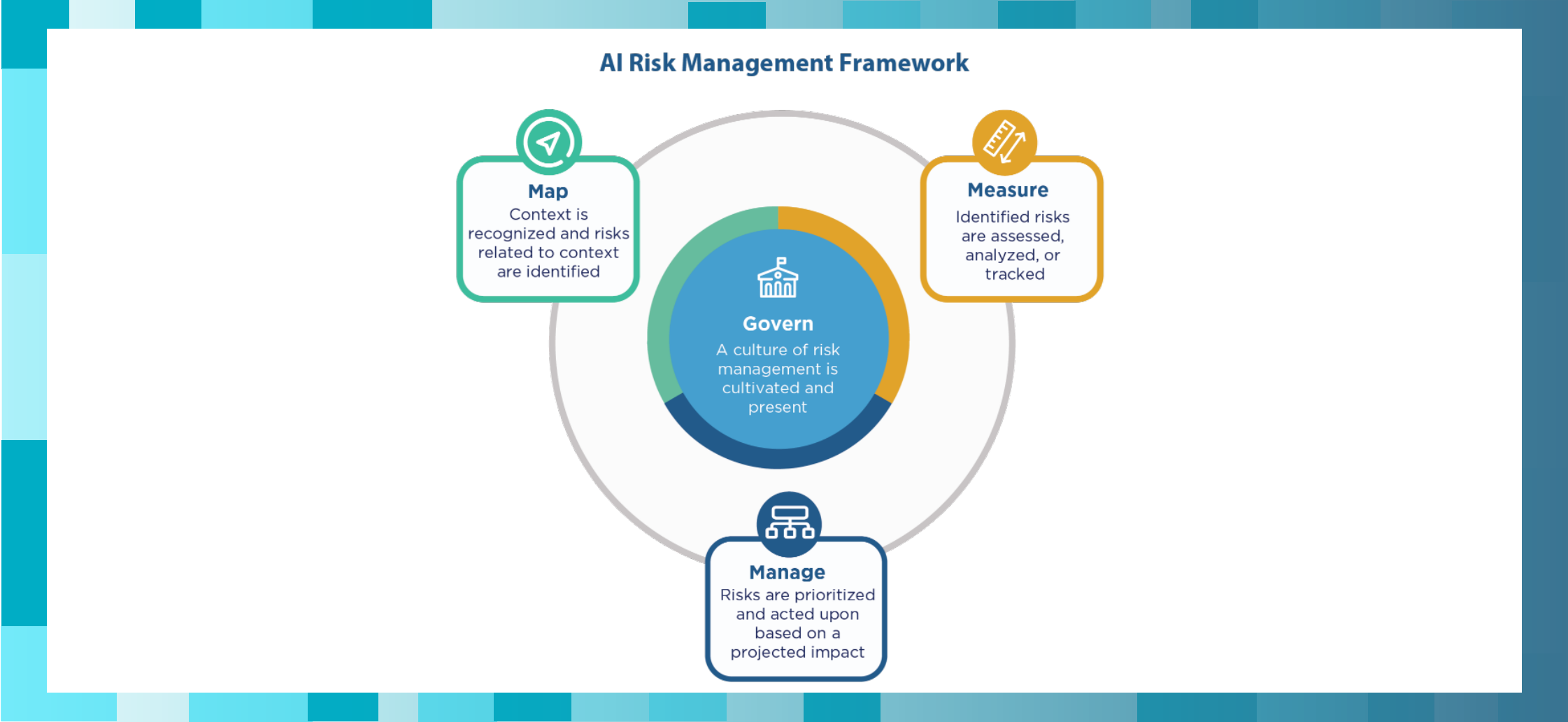


Ethical  
Considerations



Continuous  
Monitoring &  
Improvement

# NIST AI RISK MANAGEMENT FRAMEWORK....



# ....MANY AI RISK MANAGEMENT FRAMEWORKS

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## NIST AI Risk Management Framework – January 2023

- [Artificial Intelligence Risk Management Framework \(AI RMF 1.0\) \(nist.gov\)](https://www.nist.gov/artificial-intelligence-risk-management-framework)

## ISO AI Framework – June 2022

- [ISO/IEC 23053:2022 - Framework for Artificial Intelligence \(AI\) Systems Using Machine Learning \(ML\)](https://www.iso.org/standard/72431.html)

## ISO AI Risk Management

- [Information technology - Artificial intelligence - Risk management - AI Standards Hub](https://www.iso.org/standardshub/#!/standard/72431)

## Microsoft Responsible AI Framework – June 2022

- [Microsoft Responsible AI Standard v2 General Requirements](https://www.microsoft.com/en-us/ai/responsible-ai)

## Google Responsible AI Practices – 2019+

- [Google Responsible AI Practices – Google AI](https://ai.google/responsible)
- [Google AI Review Process – Google AI](https://ai.google/review)