

**DRAFT**

# Texas State ISO Con

Automation and Artificial Intelligence in Cybersecurity

Stan Kiyota  
Leadership Partner

September 12, 2019



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# Gartner's leadership partners brings a broad base of experience to the critical issues



Stan Kiyota, Leadership Partner  
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Stan Kiyota is a Leadership Partner with the Gartner Enterprise for IT Leaders Security & Risk Management Program. He comes to Gartner with 38 years of industry experience in a variety of organizations in the private and nonprofit sectors. Mr. Kiyota has 30 years of information security, risk and compliance expertise, including five years as the CISO at one of the world's largest management consultancies. He has industry experience working in telecommunications, financial services, consumer products, management consulting, legal and non-profit industries.

Mr. Kiyota's past experience includes advising, consulting and providing information security, risk and compliance expertise to clients on four continents and 25 countries, including Fortune 50 energy and telecommunications post-merger security integrations, health care quality, military-industrial cyberbusiness diversifications, next-generation security systems and architectures, U.S. DHS and intelligence agency cyber program issues and more. He holds a bachelors degree in International Relations from the University of Southern California, and is a Certified Information Security Manager (CISM) and Certified Information Systems Security Professional (CISSP).

***Today's fast paced discussion is on how you must adapt and automate to the ever increasing speed of threats and the needs of our customers / constituents***



API data AI  
safety robotics  
blockchain identity  
cloud product  
machine learning

**Security spending will continue  
to grow at a compound annual  
growth rate of:  
8.7% through 2023**

**And in sub-categories like cloud security, that growth rate across the same period will be:**

**40.7%**

**What's our value proposition as  
information security professionals?**



# Who are our customers?



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**What capabilities are we using to  
secure our critical assets?**



**How do we serve our citizens, or  
achieve our mission?**



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**And how are we effecting tangible change in our organizations?**







**80%**

**subscribers were new Porsche customers**

---

**5 YRS**

**younger than typical new-car buyer  
(Passport customers)**

---

**\$100K**

**more in average annual  
income than other new-car  
buyers**

# The Automation Continuum...

**Ad-Hoc  
Automation**

**Limited  
Automation**

**Functional  
Automation**

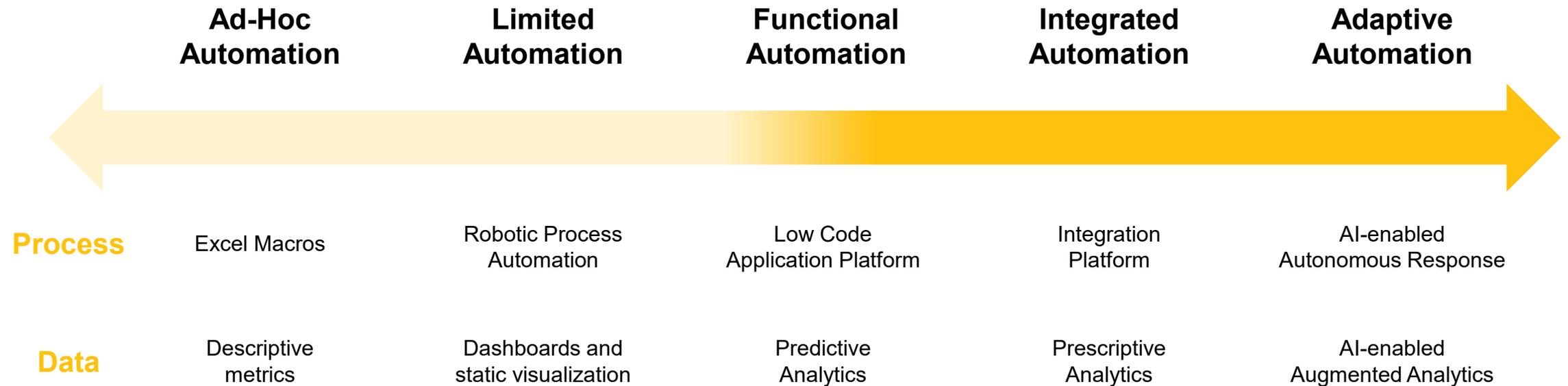
**Integrated  
Automation**

**Adaptive  
Automation**



**...in everything you do as an info sec professional,  
should be focused on driving to the right...**

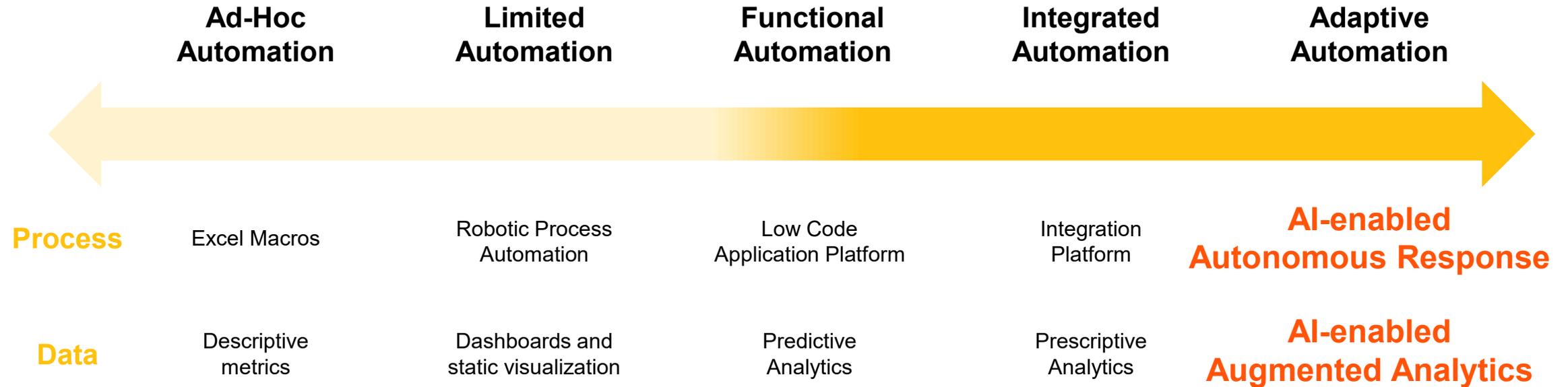
# The Automation Continuum



A glowing blue fingerprint is shown on a circuit board. From the fingerprint, vertical lines of light rise, each topped with a binary digit (0 or 1). The background is dark blue with a subtle circuit pattern.

**Security  
automation  
choices that  
are conscious,  
and adapted**

# The Automation Continuum...



## ...how do we get there???

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# Our World View Is Flawed

What We Think the World Is Like:



**Blacklist the bad stuff**

**A bit of gray in the middle**

**Whitelist the good stuff**

What the World Is Really Like:

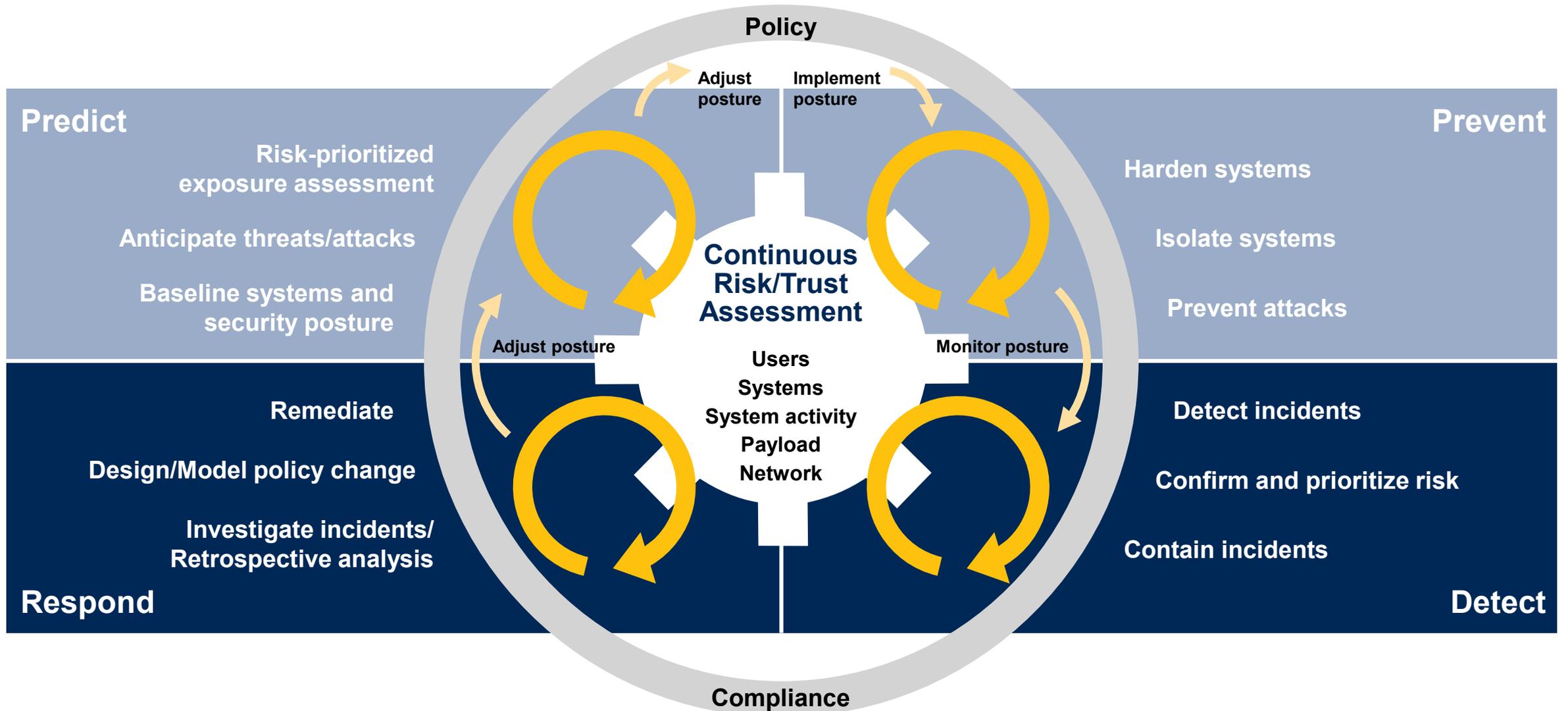


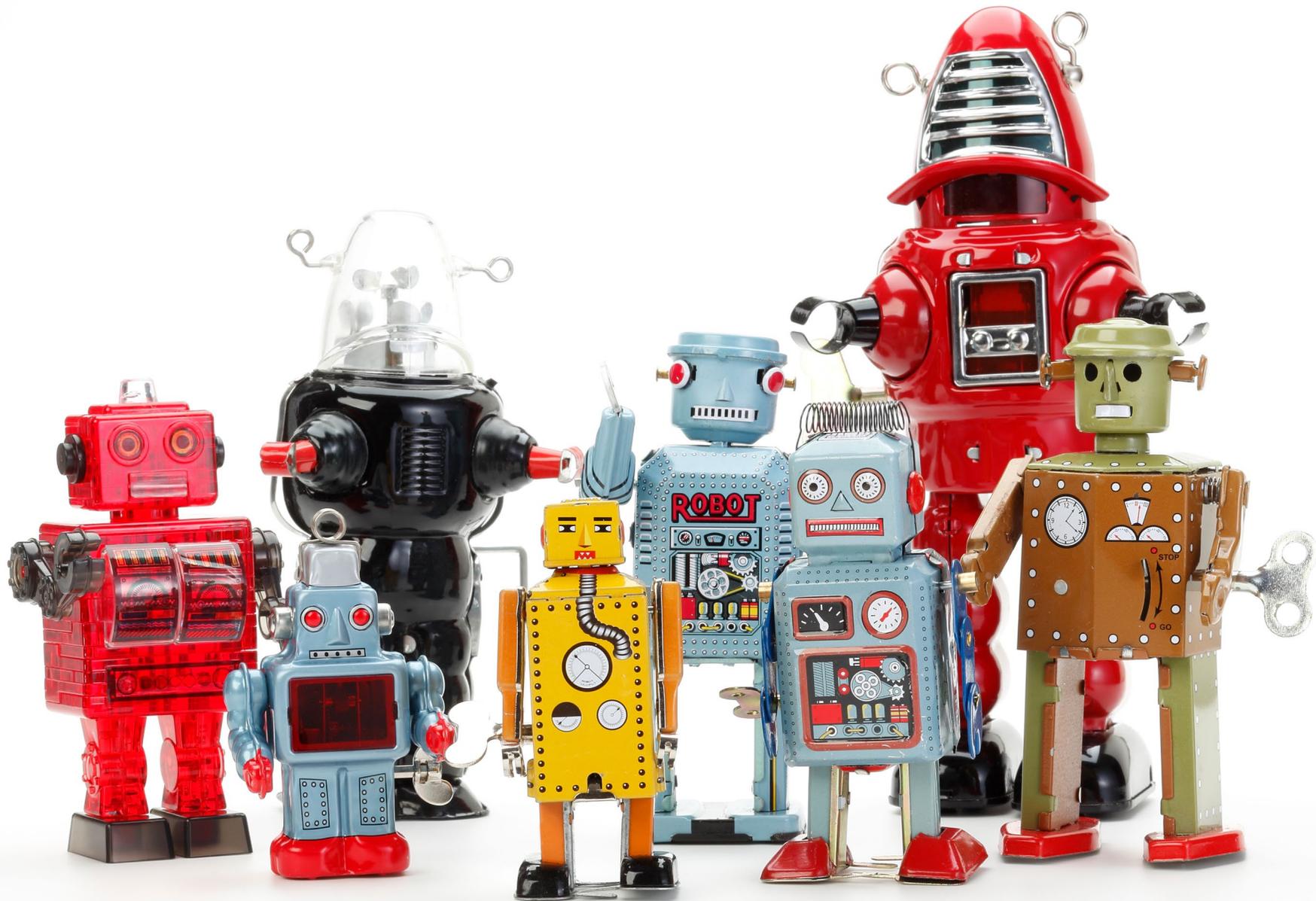
**Everything needs to be continuously assessed and for security decisions adapt accordingly**



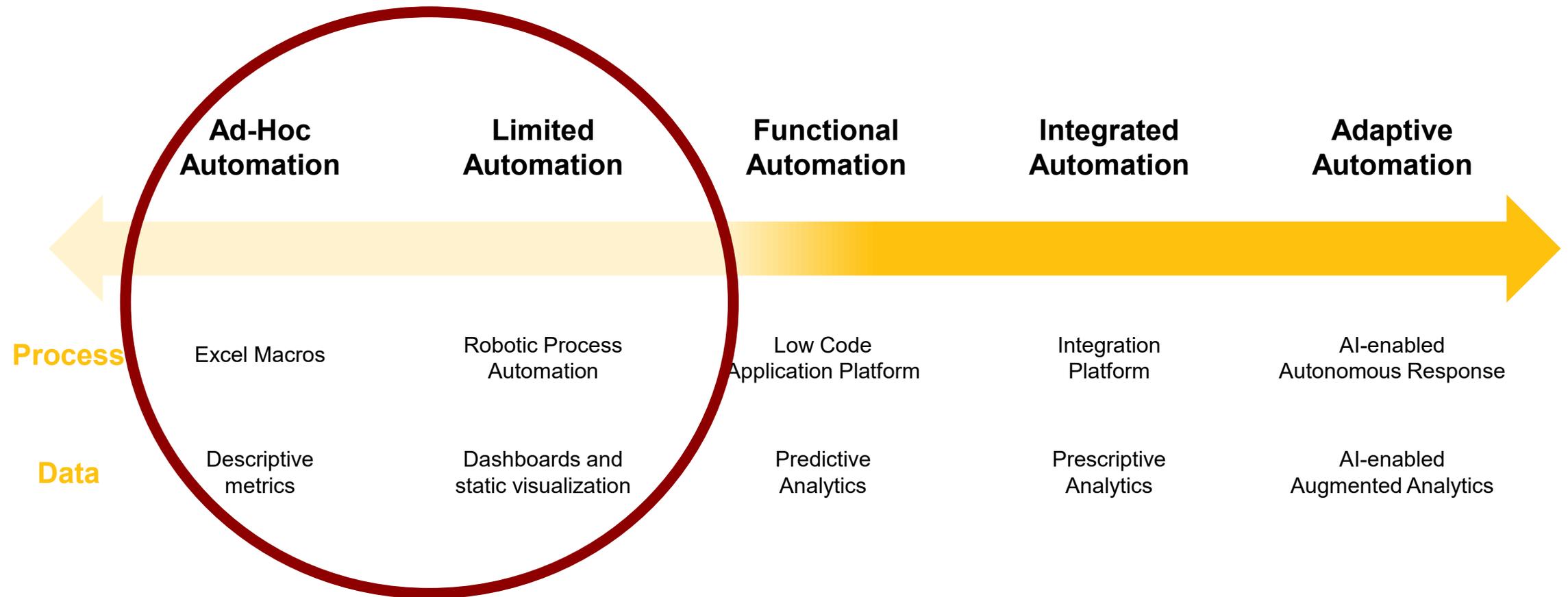
# **Continuous Adaptive Risk and Trust Assessment Model**

# CARTA Is the Engine that Powers the Gartner Adaptive Security Architecture

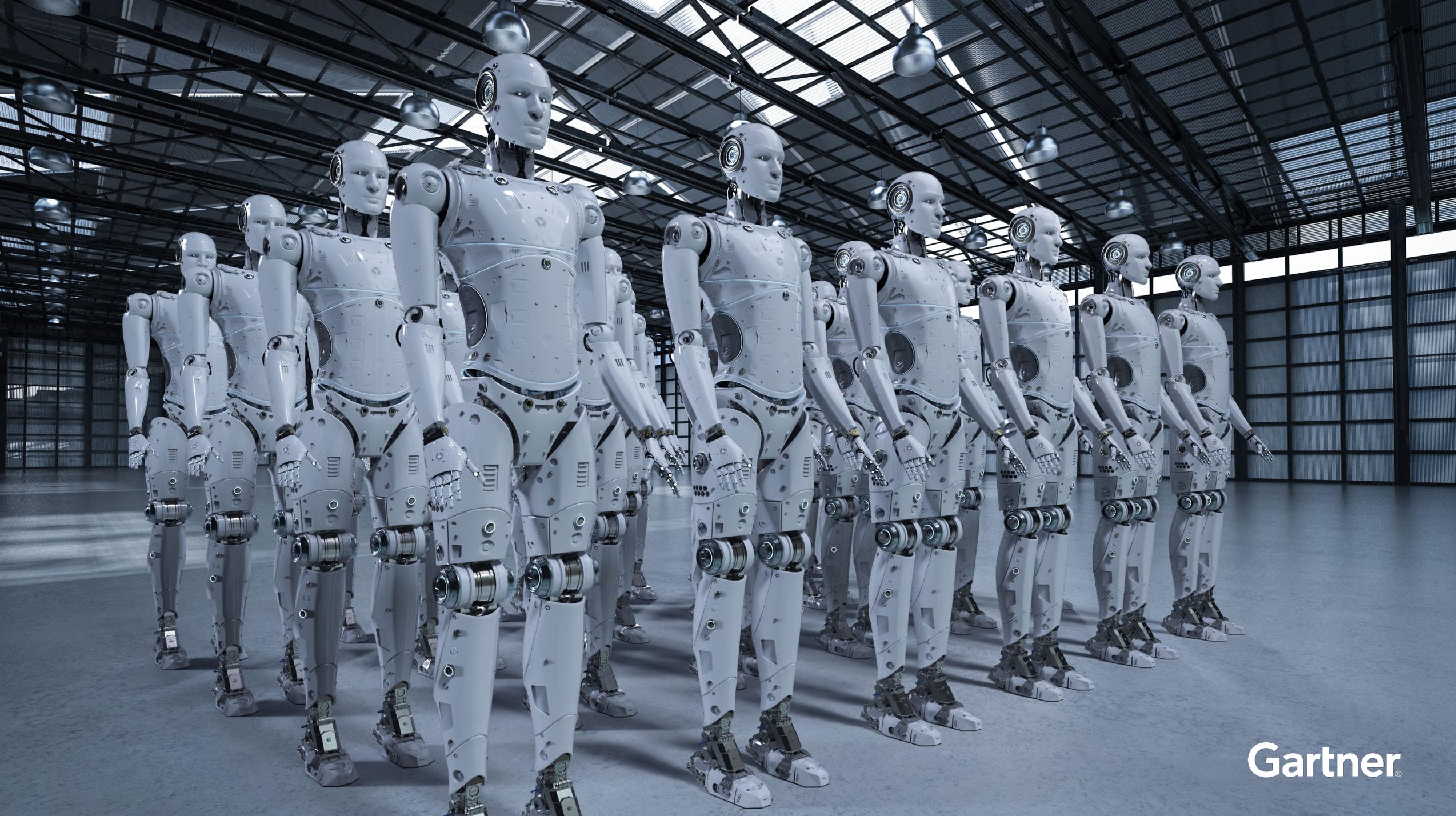




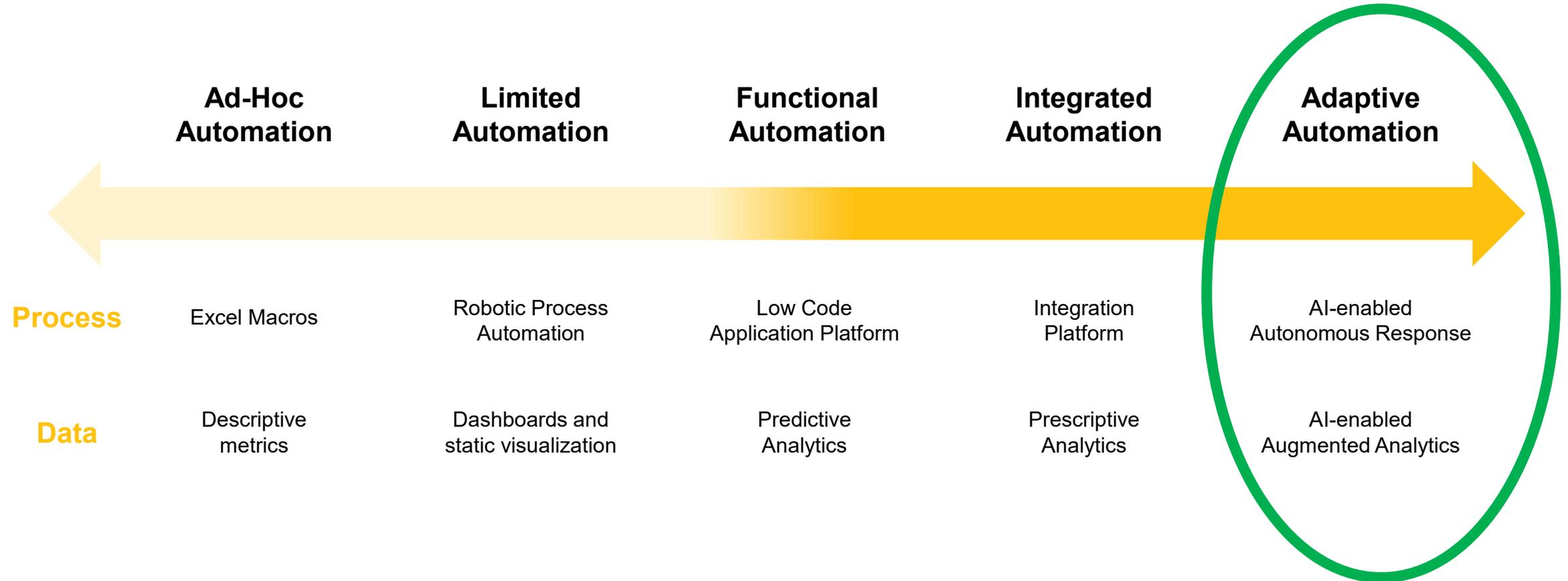
# The Automation Continuum

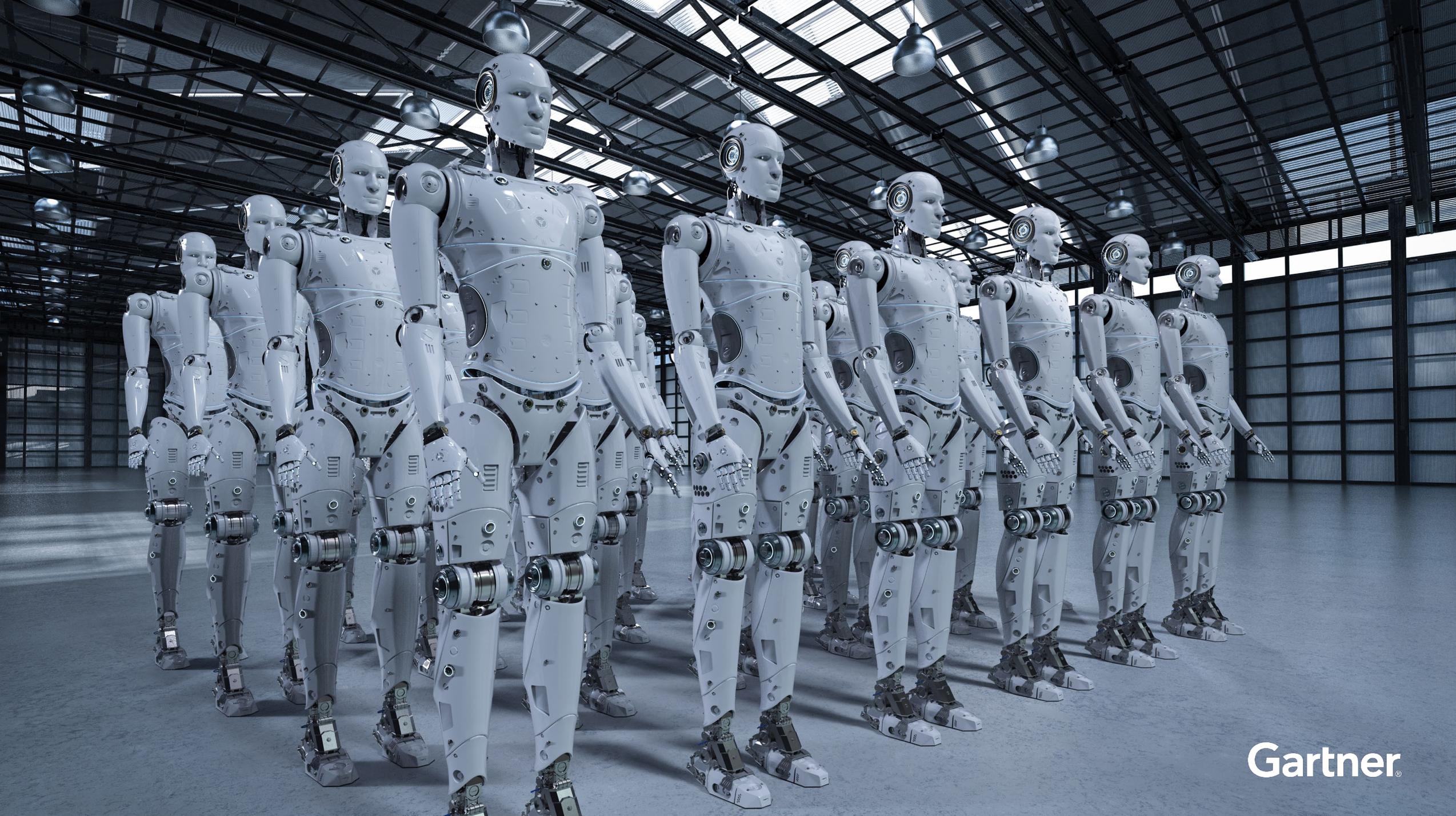






# The Automation Continuum





Real Example of CARTA in Action...

**PayPal**

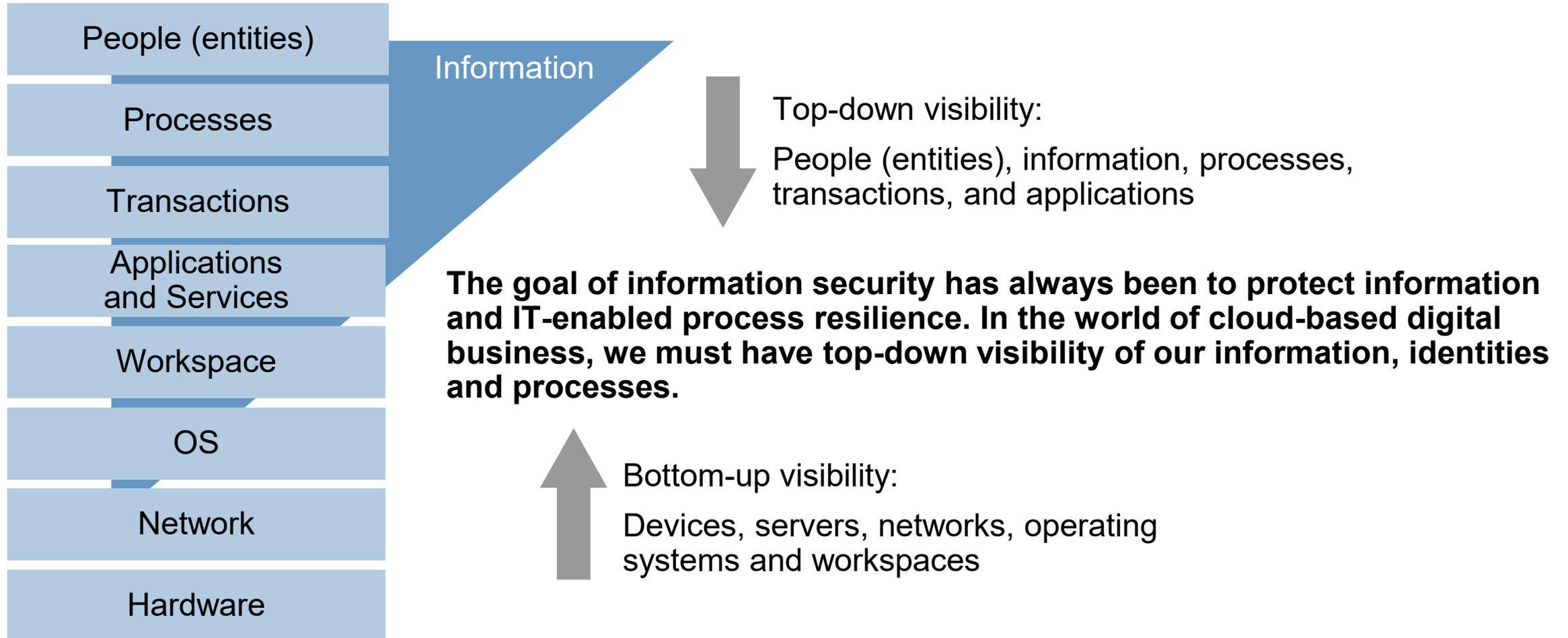
# Information Security, a CARTA Approach

Translating a Functionally Siloed Organization in to a Risk Centered - Adaptive Process



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# CARTA Requires Shifting Visibility and Monitoring “Up the Stack”



**Ad-Hoc  
Automation**

**Limited  
Automation**

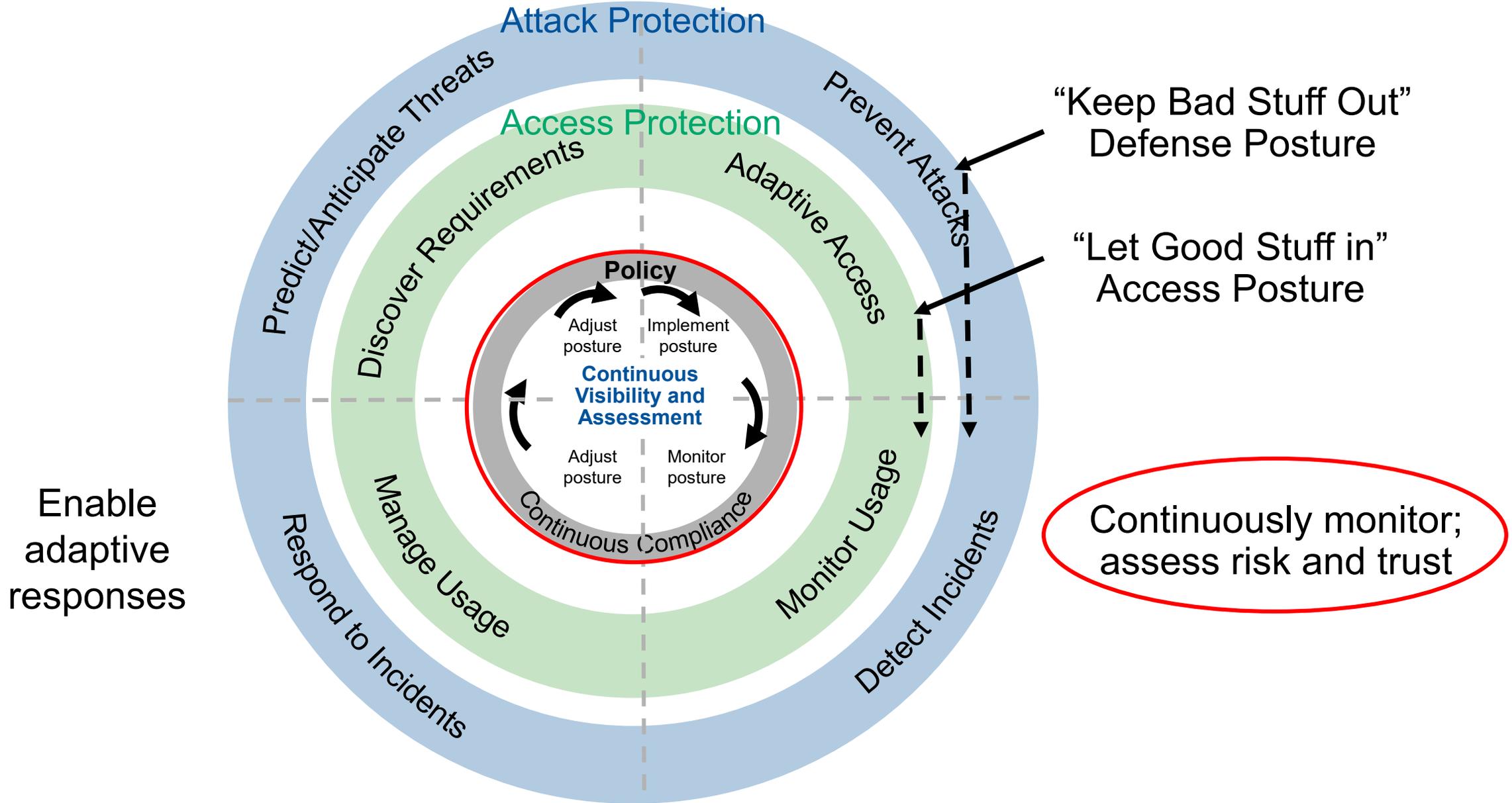
**Functional  
Automation**

**Integrated  
Automation**

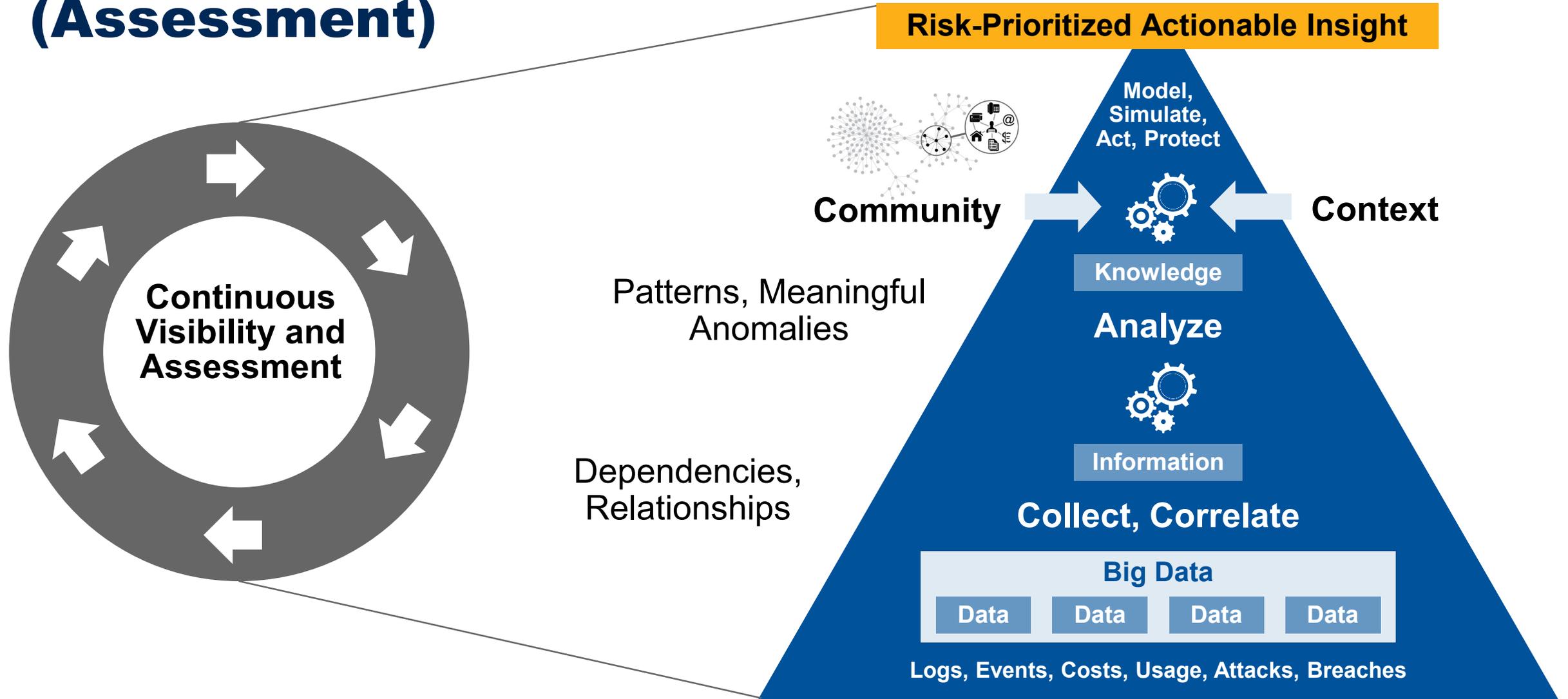
**Adaptive  
Automation**



**Risk / Trust**

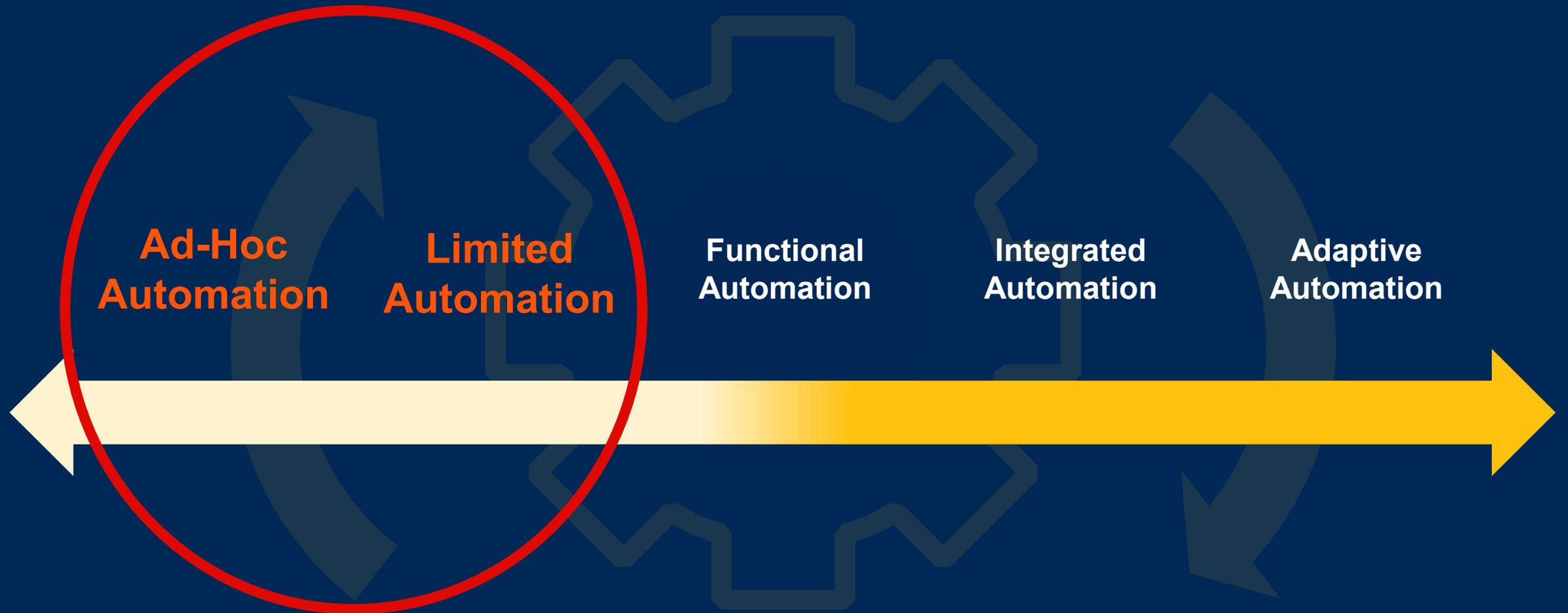


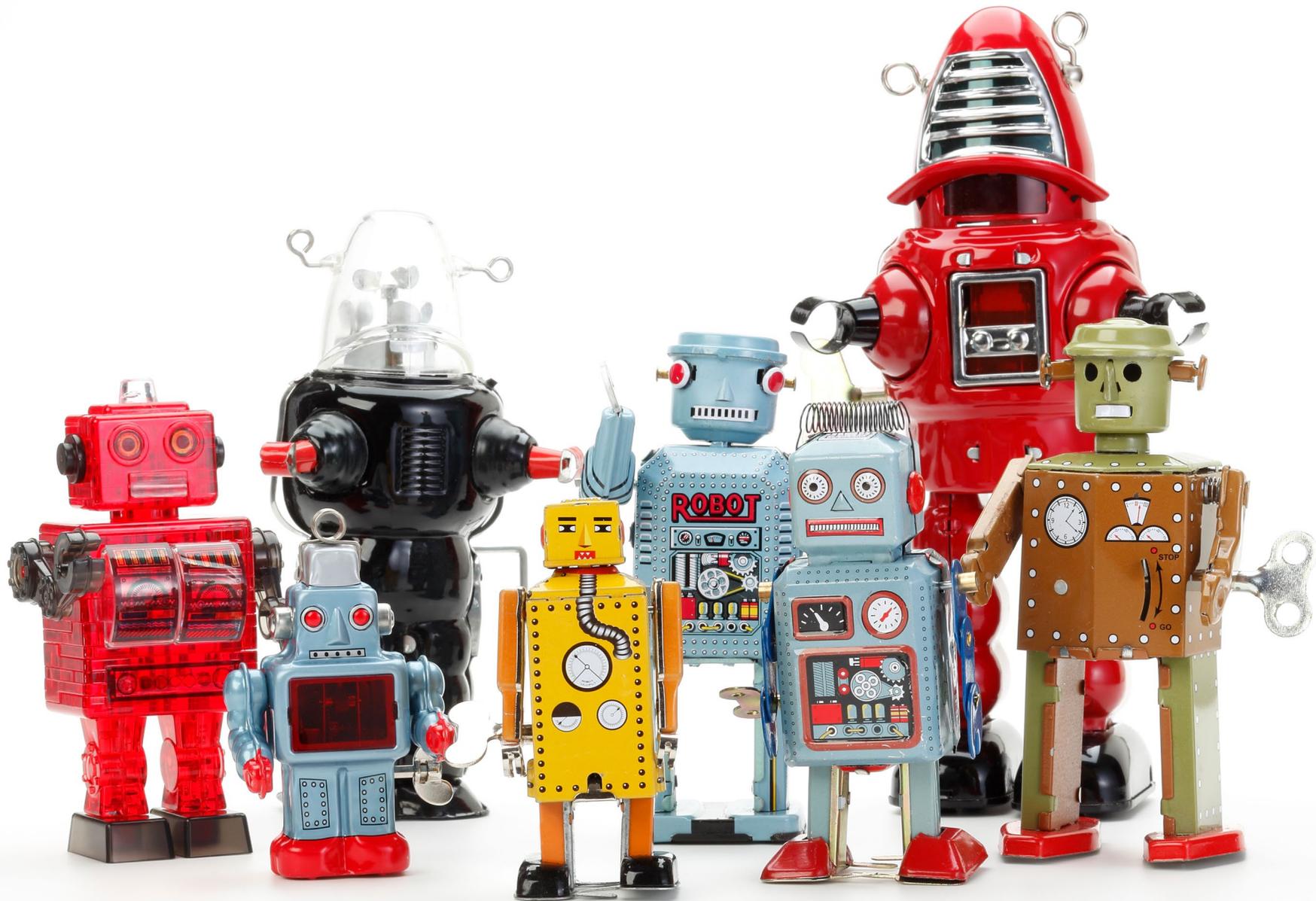
# The Center of the Architecture Is Continuous Monitoring (Visibility) and Continuous Analytics (Assessment)

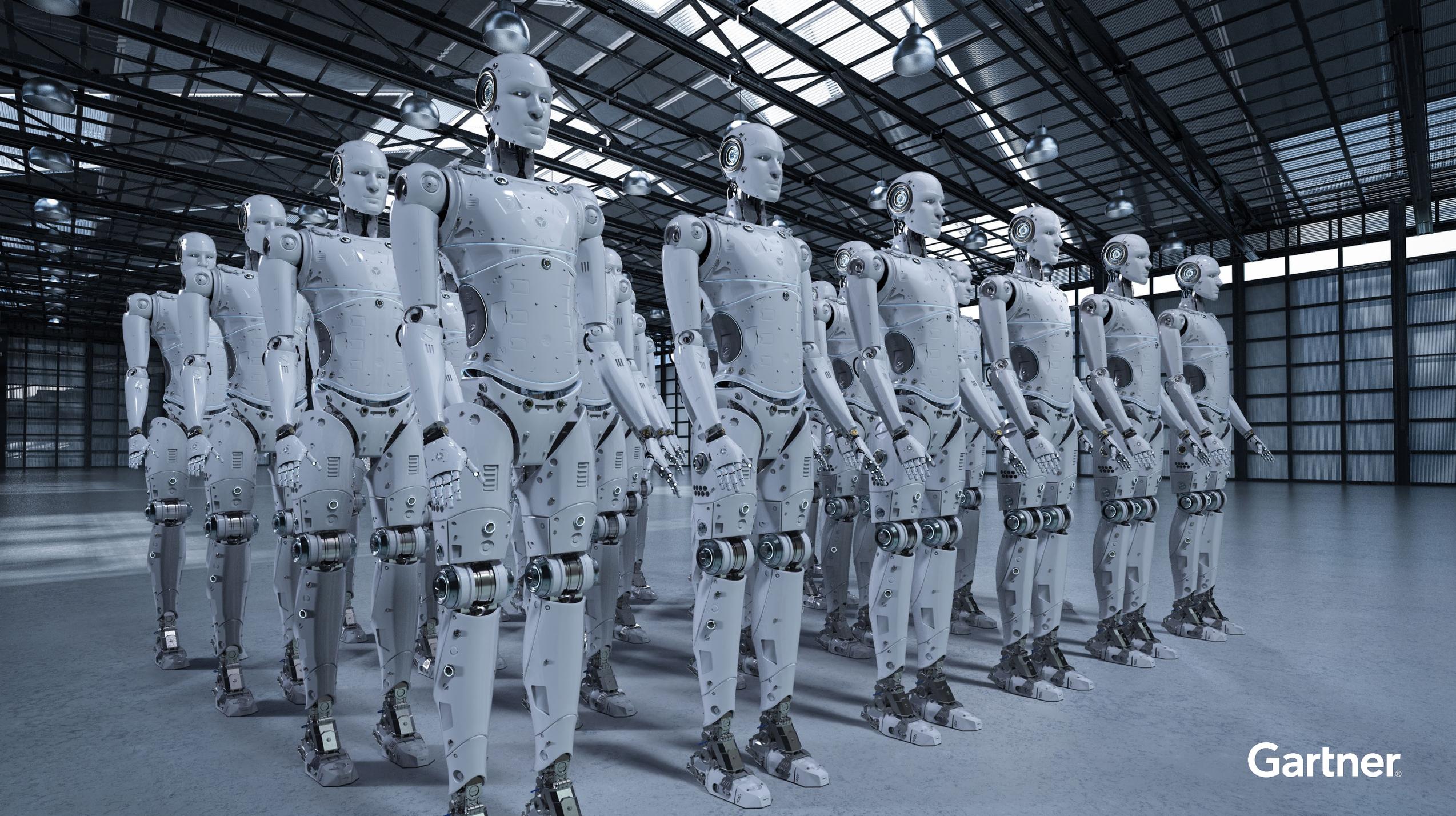


**Use analytics, AI, automation,  
and orchestration to speed  
the time to detect and  
respond — and to scale  
our limited resources**

# The Automation Continuum







A close-up photograph of a person's hands. The person is wearing a blue and white checkered shirt. They are holding a silver pen in their right hand and a pair of black-rimmed glasses in their left hand. In the background, another hand is visible, gesturing with fingers spread. The lighting is soft, and the background is slightly blurred.

**What does automation  
mean to **MY ROLE?****

# Identity



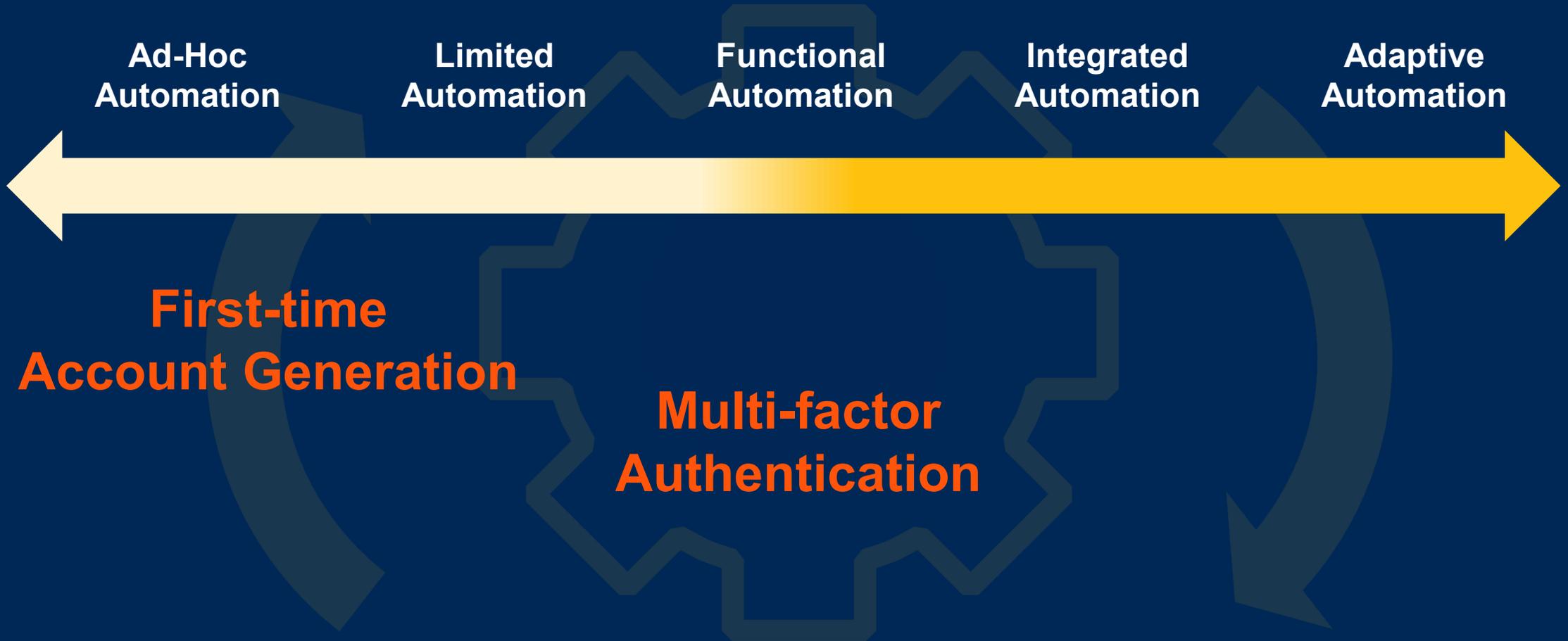


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# **Identity Management Automation**

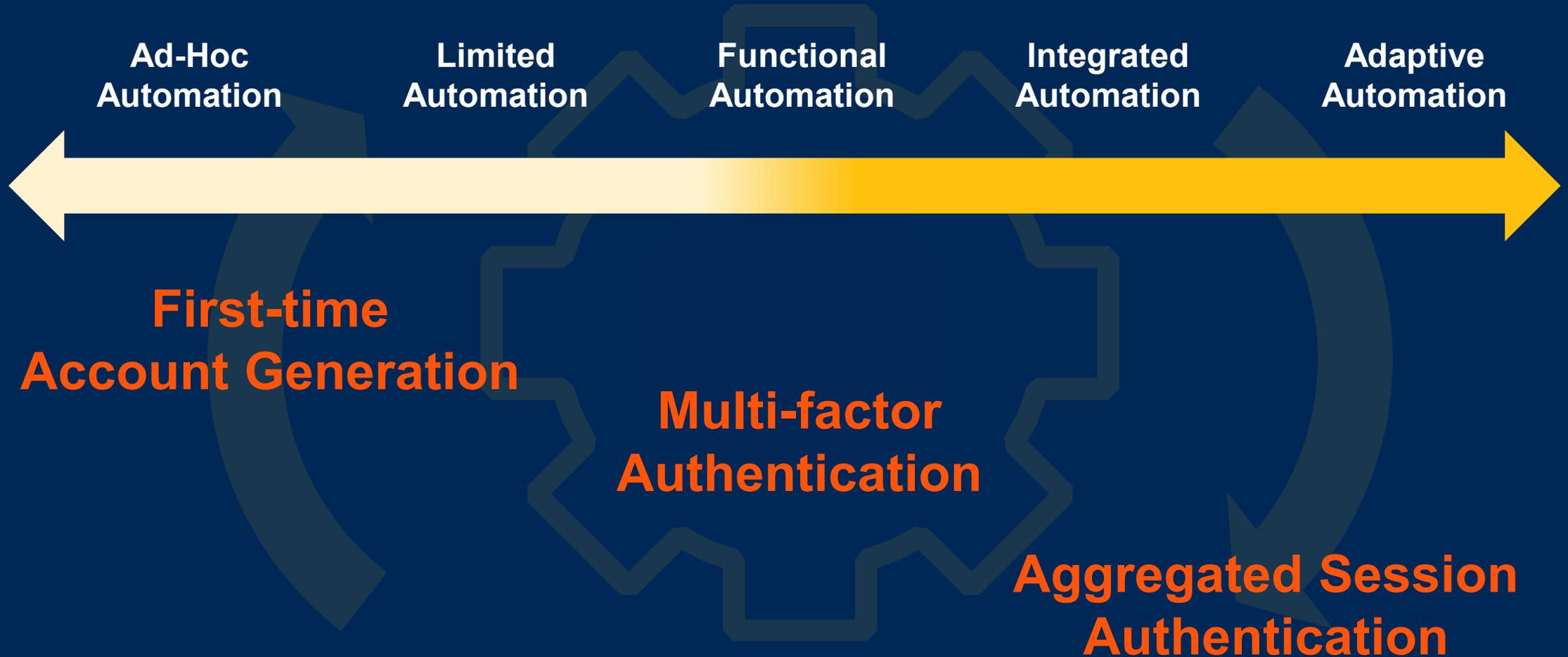
# Identity



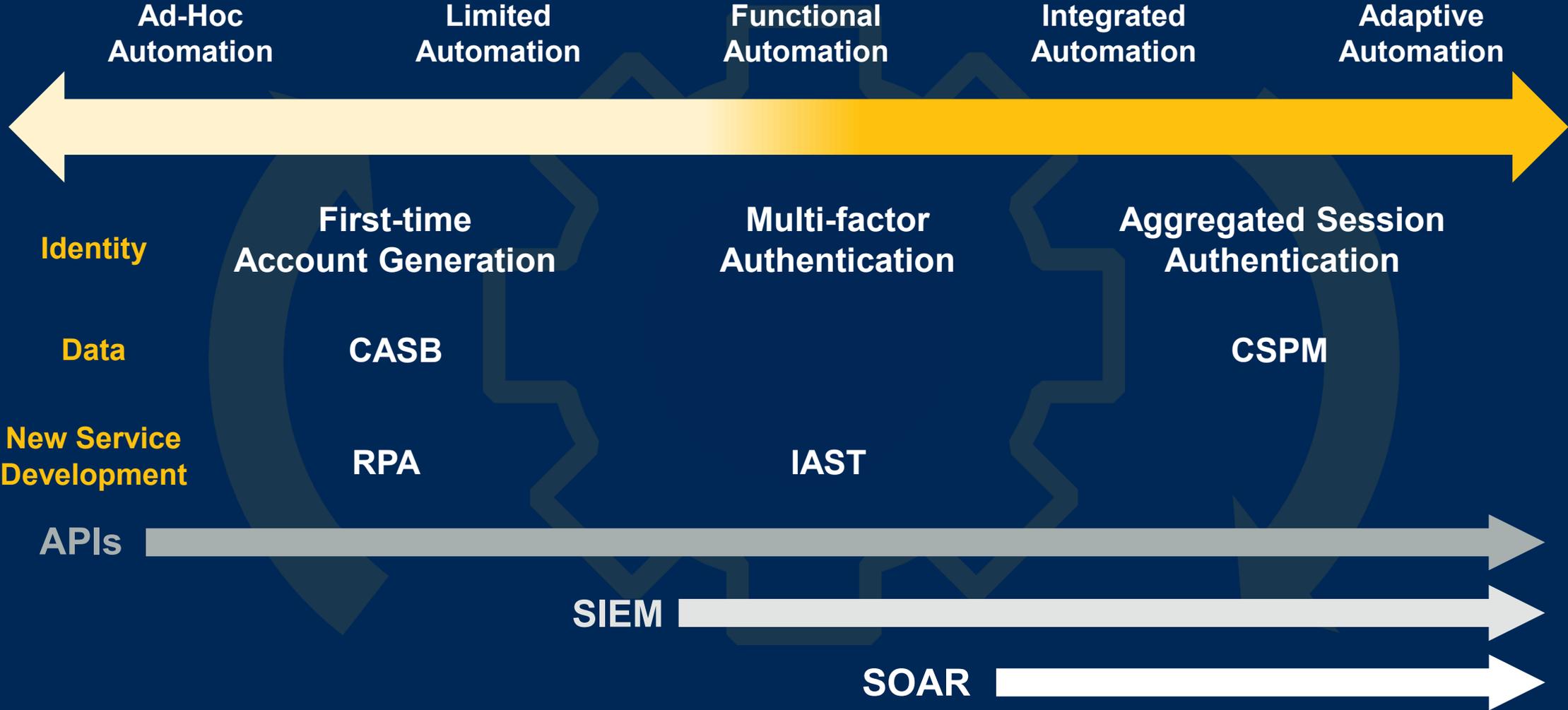


# **Adaptive Access Approach**

# Identity



# The Automation Continuum



**Security and Risk  
Professionals can  
deliver value.**