Local Government
REIMAGINED CONFERENCE

JUNE 5–7, 2024 PALM DESERT, CALIFORNIA

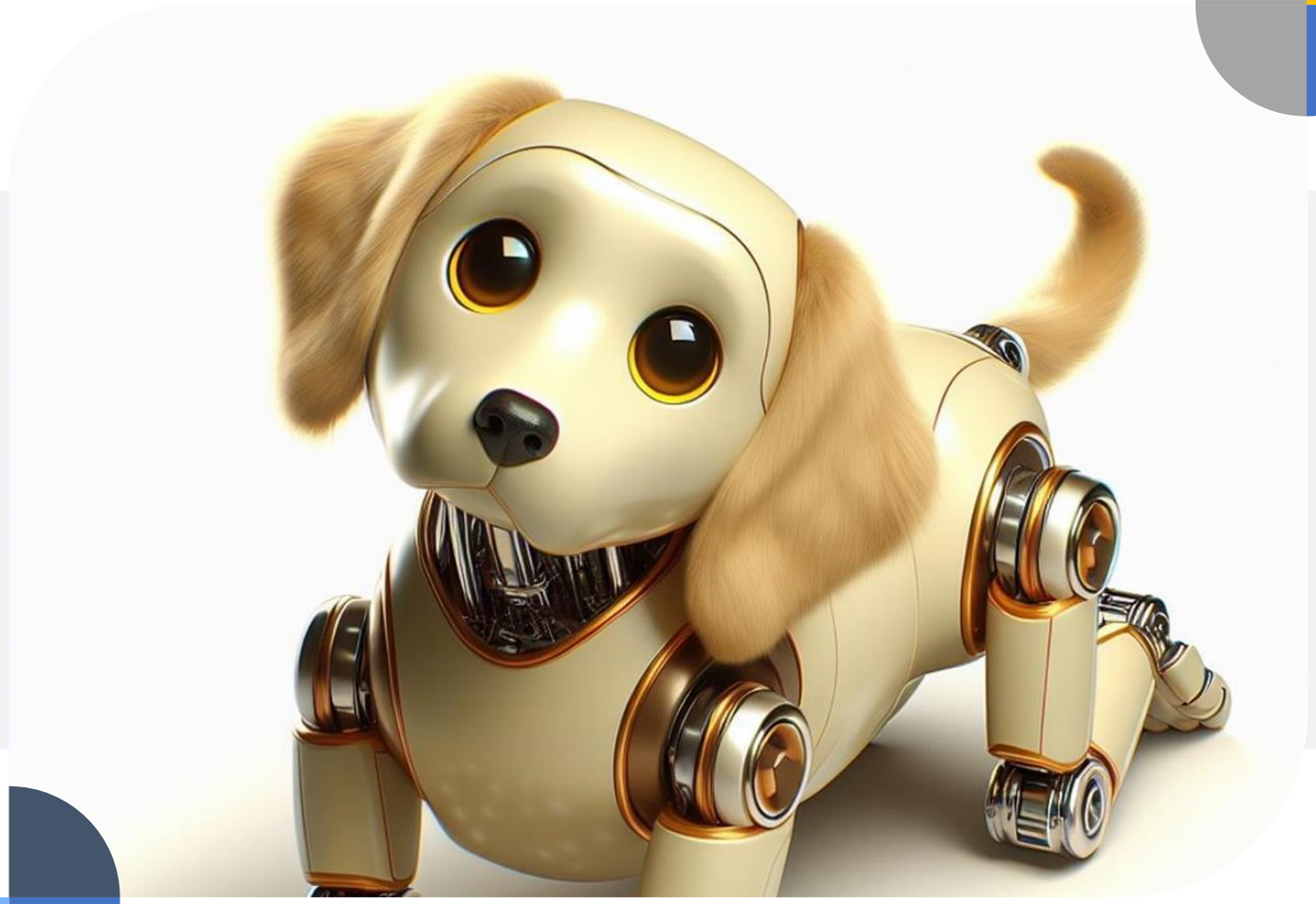
# AI: More Friend than Foe

Jennifer Robinson, SAS Global Public Sector Strategic Advisor

ICMA | conference

# Agenda

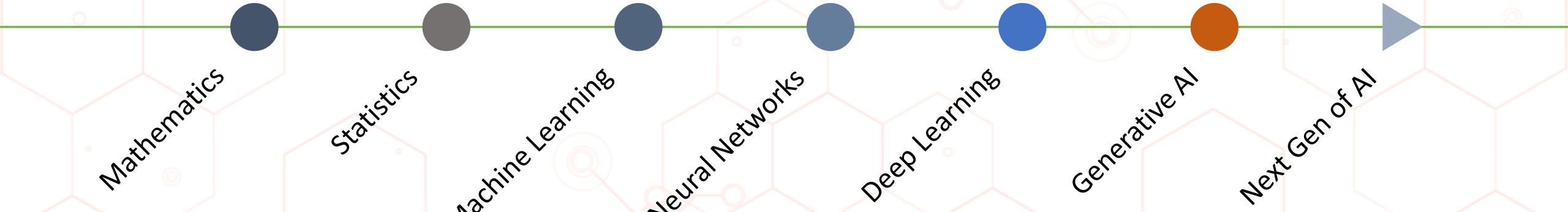
1. Artificial Intelligence
2. Generative AI
3. FAQs



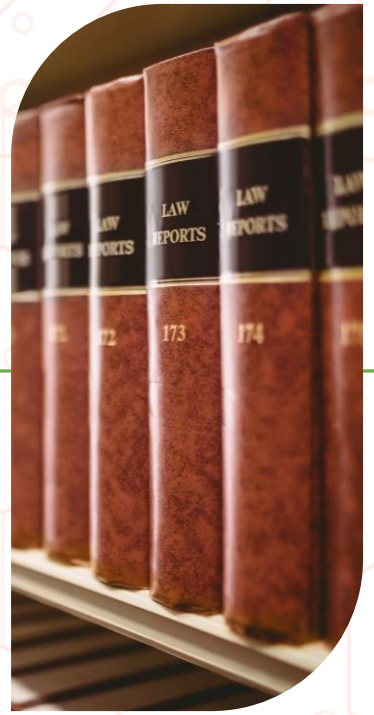
# Agenda

1. Artificial Intelligence
2. Generative AI
3. FAQs

# How we got to where we are today....

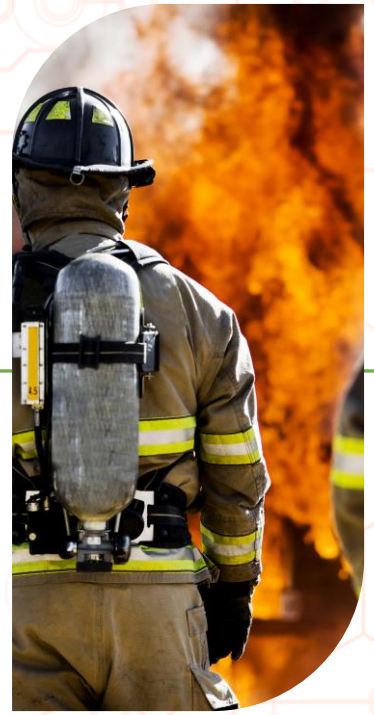


# ...and where we are going in the future



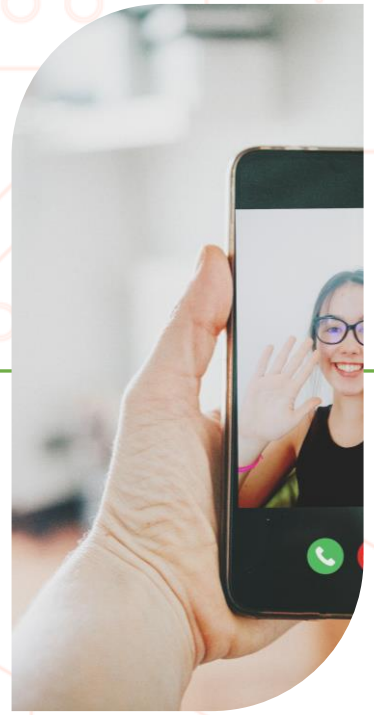

Simulation

Prevention

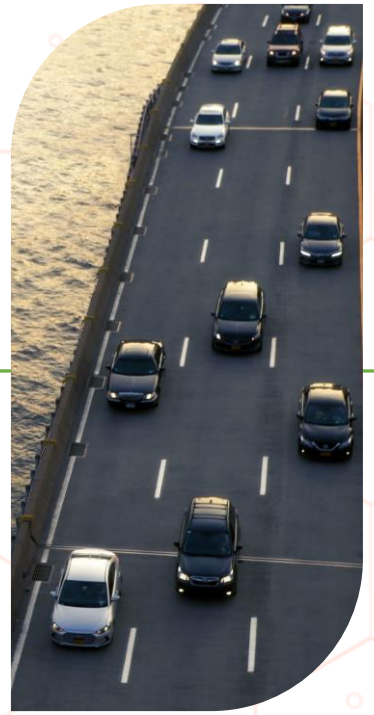


Preparation

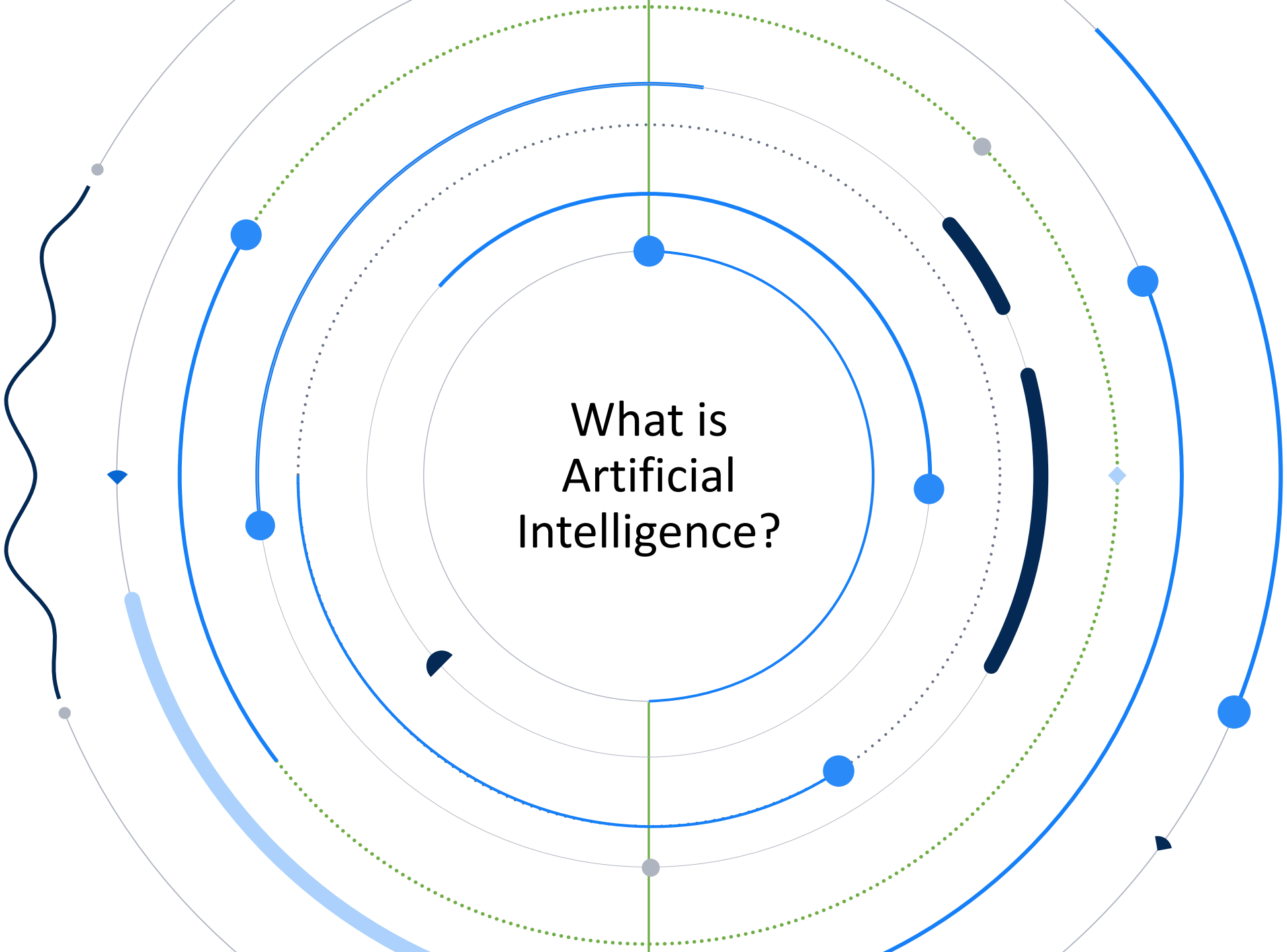
Detection

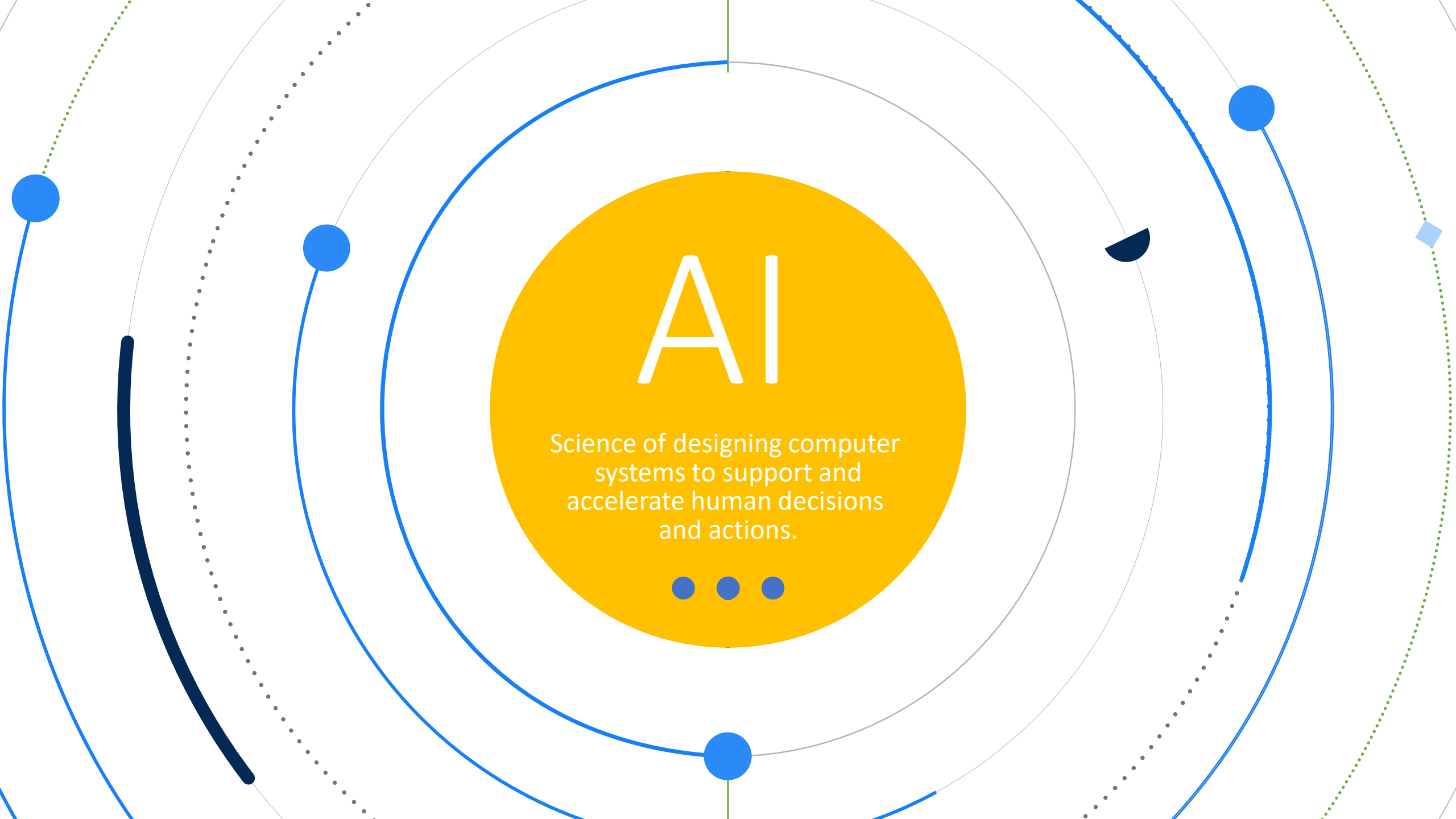


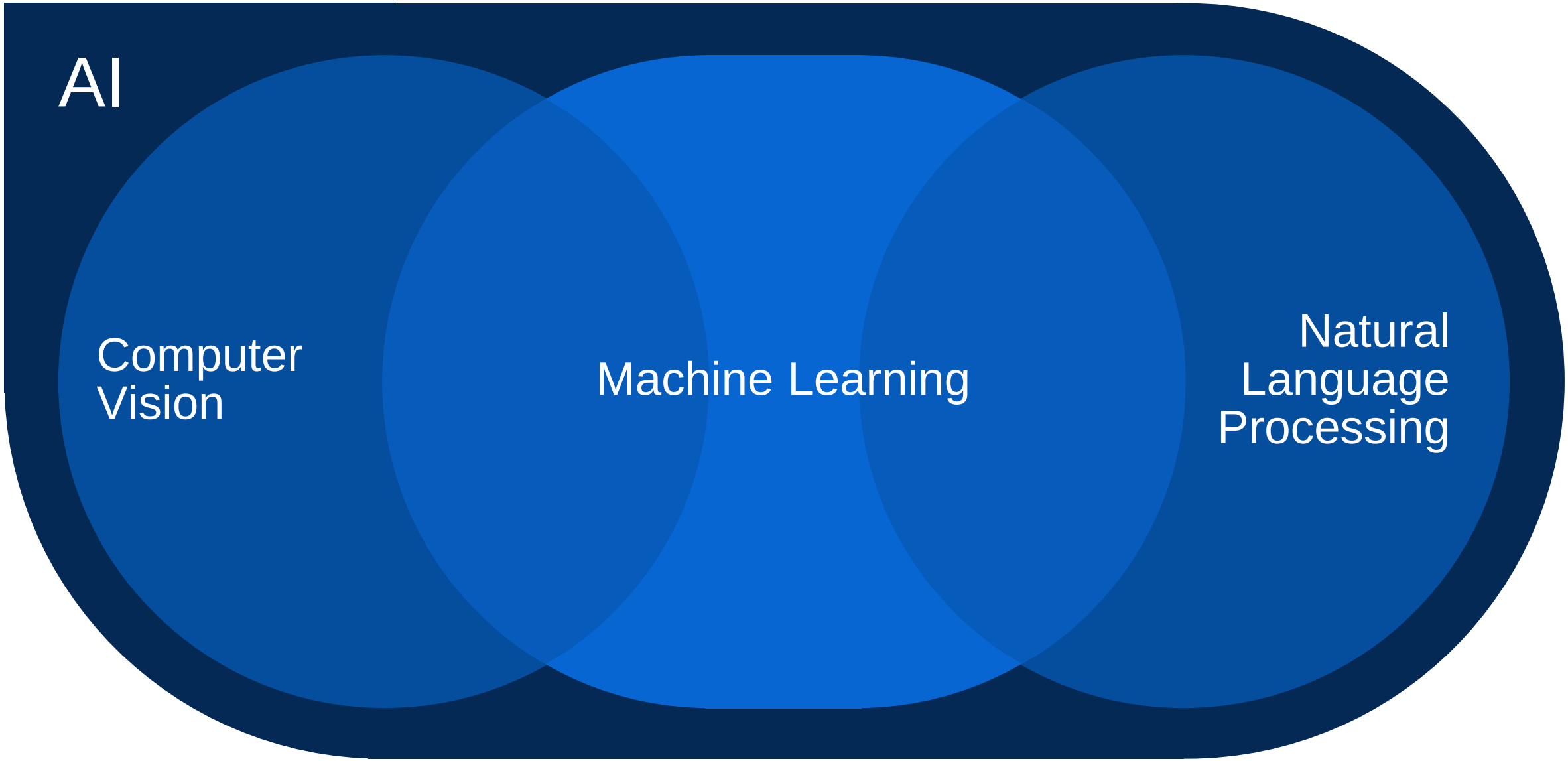
Engagement

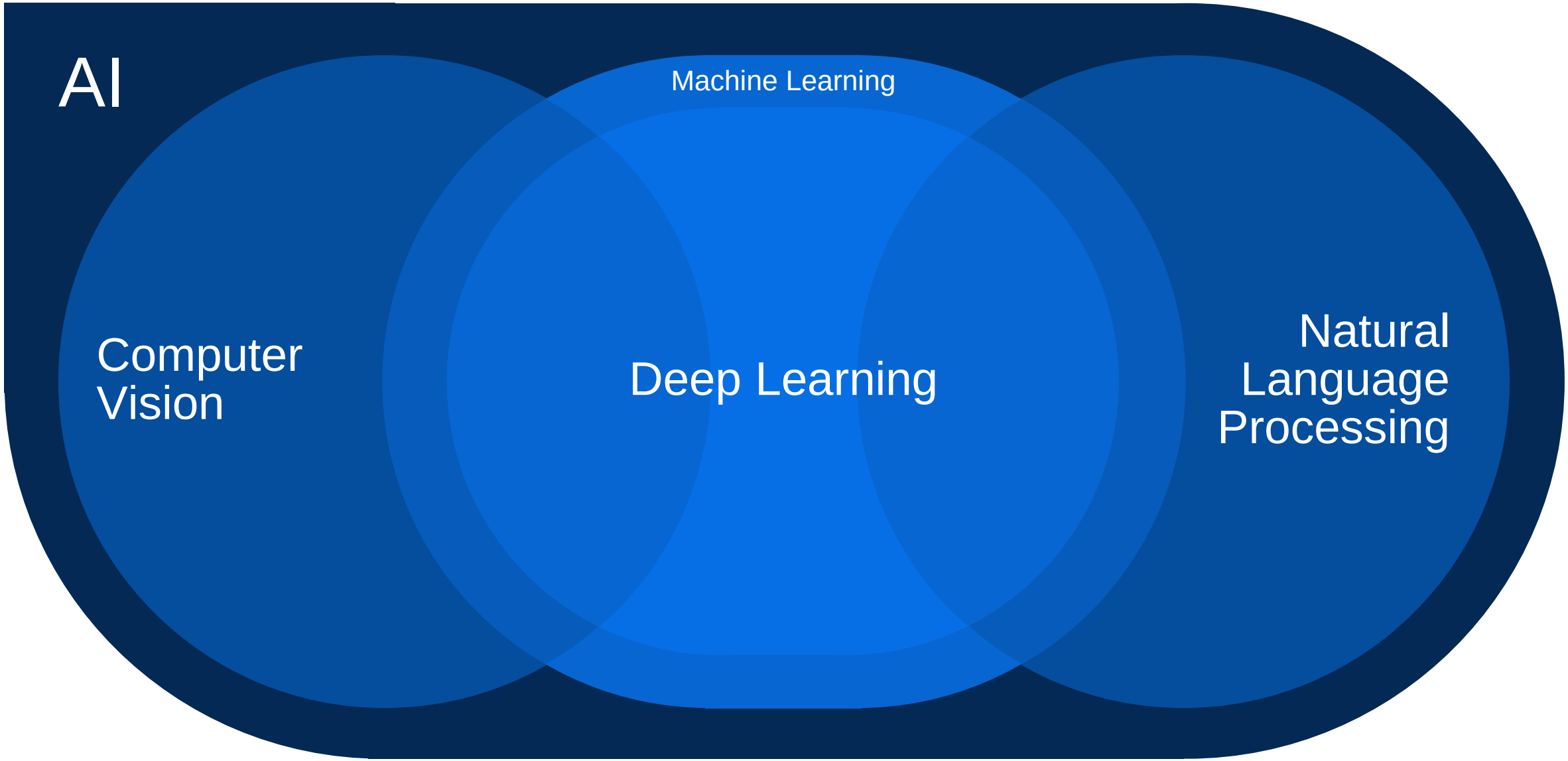


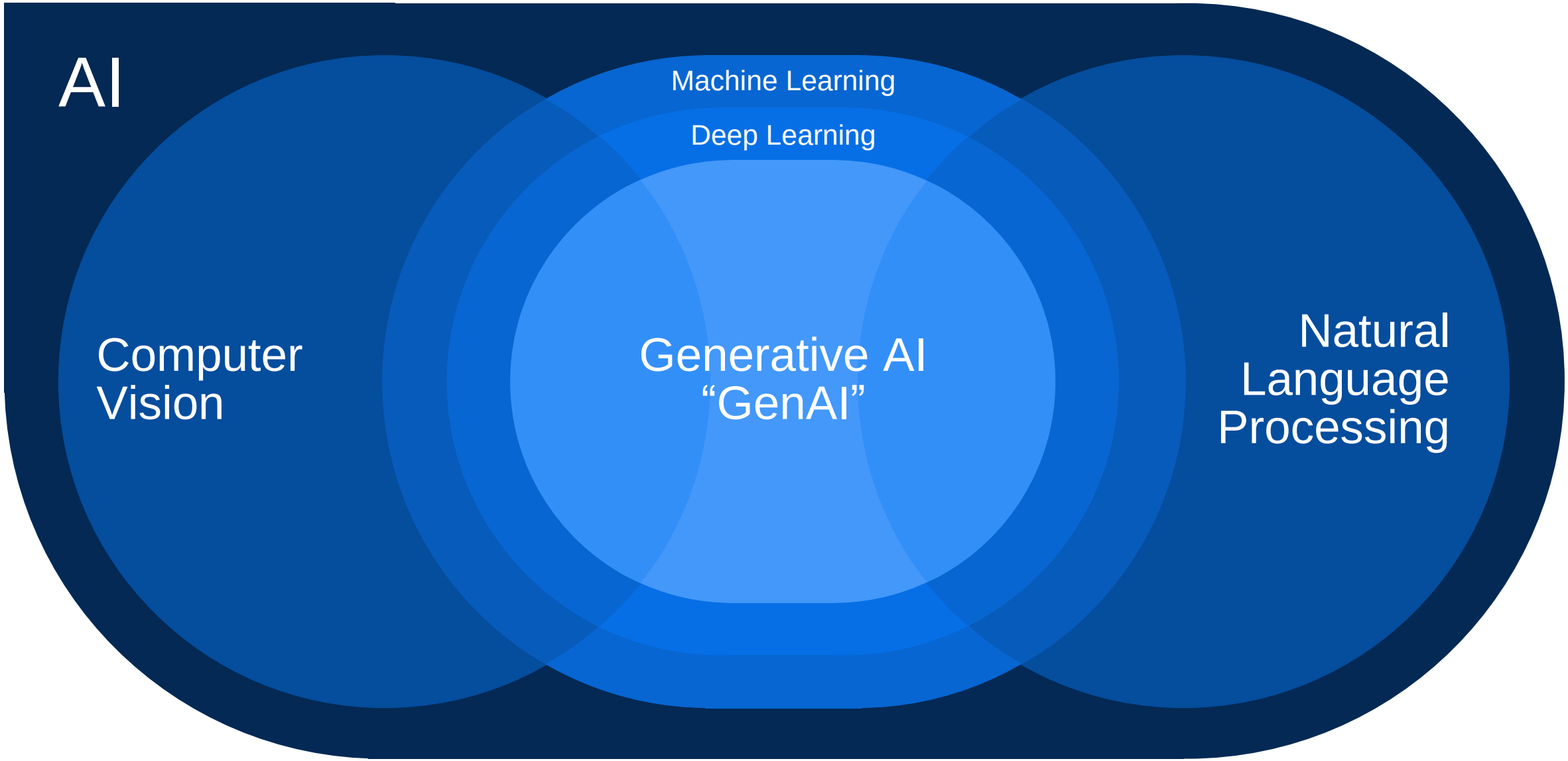
Management

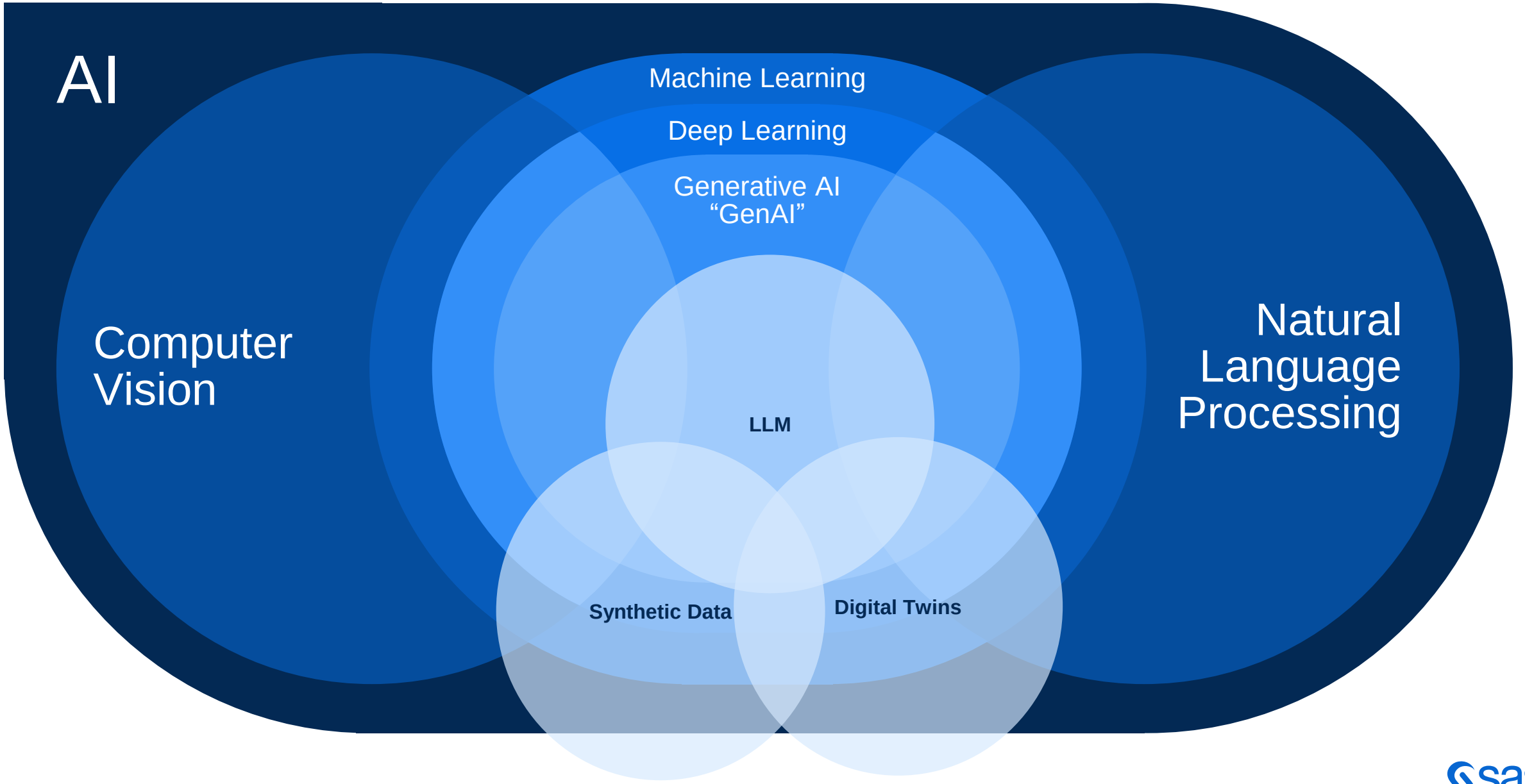

What is
Artificial
Intelligence?

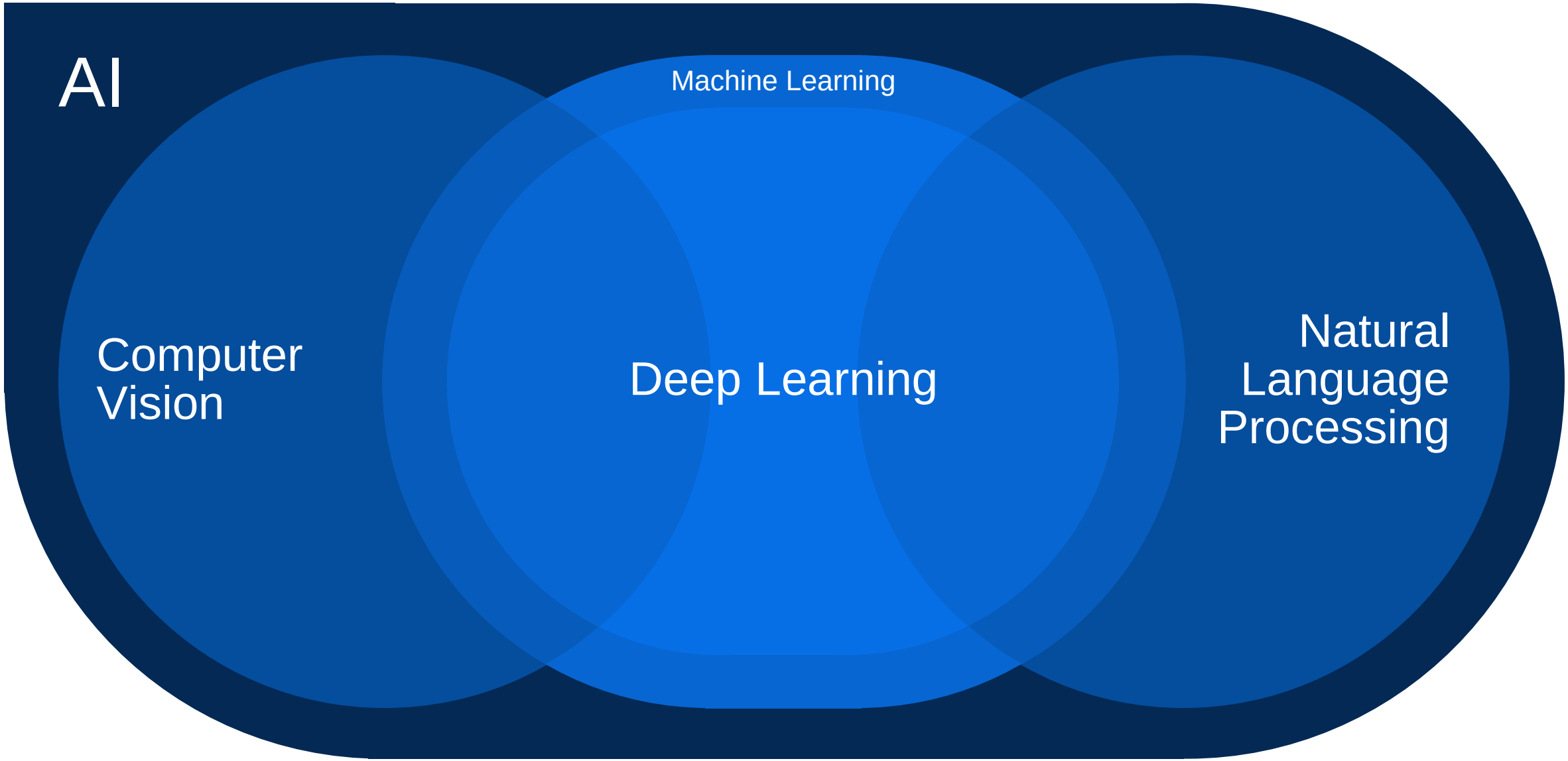

AI
Science of designing computer systems to support and accelerate human decisions and actions.









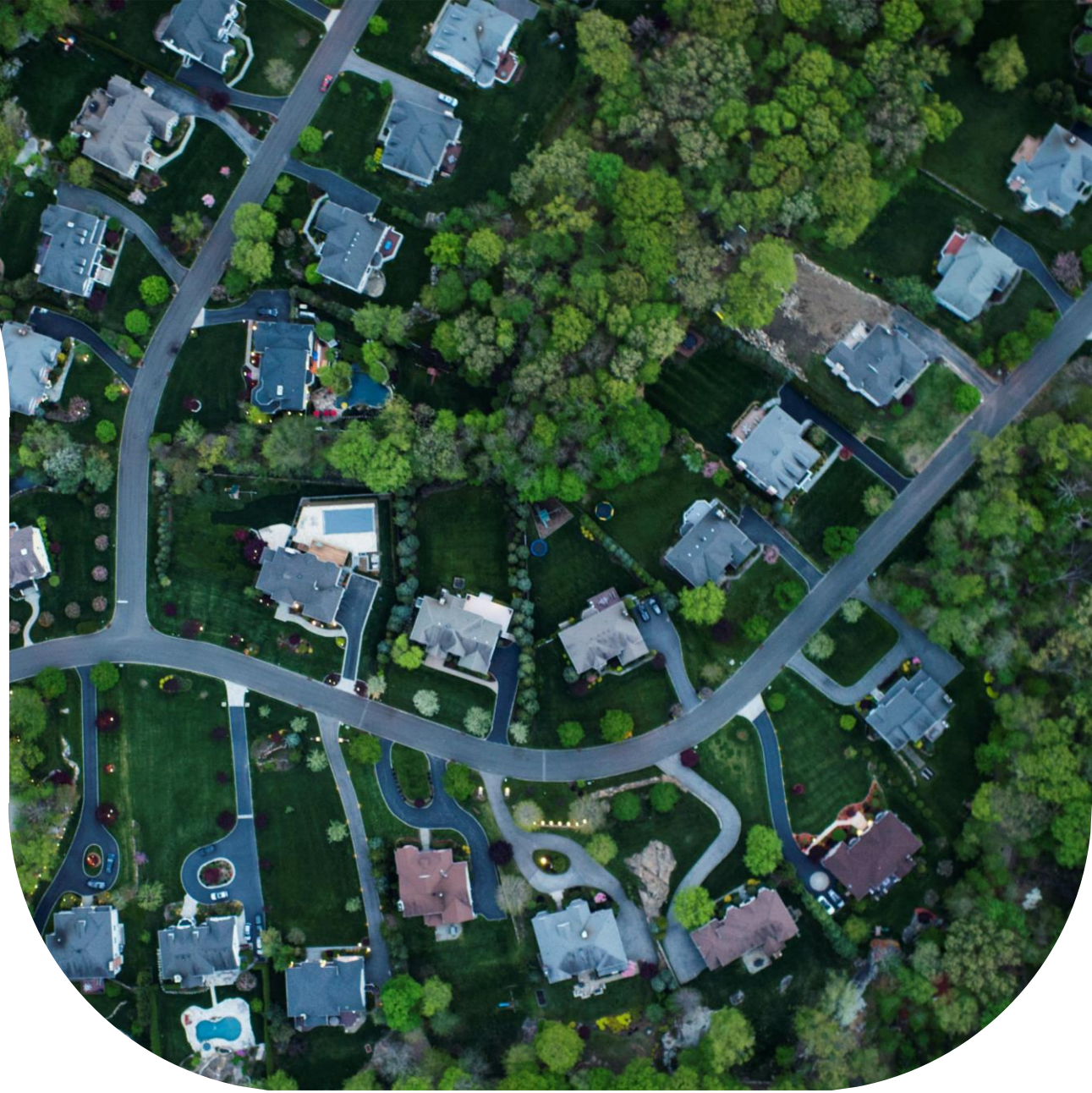


# Machine Learning

Systems learn from data, identify patterns, and make decisions with minimal human intervention

# Property Valuation

Counties are using Machine Learning (ML) to reassess every residential property in the community every night.



# Investigations Management

Law enforcement agencies use Machine Learning (ML) to pinpoint offenders, identify criminal patterns and trends, and issue alerts about emerging threats.

# Transportation

Cities are using Machine Learning (ML) to understand commutes and predict traffic in real time.

# Natural Language Processing

Enables understanding, interaction and communication between humans and machines.

# Natural Language Processing

Memorandum of Interview

Date: January 18, 2018

Time: 10:00am

Location: 32 Wright Street Westport CT 68801

Subject interviewed: Bobby Axelrod DOB: 5/25/1977; Ht 6'3" Wt: 178 DL# MD-87623450 SSN: 412-88-2346

Case Number: 123456789

Address: 32 Wright Street Westport CT 68801

Interviewed by: Steve Serrao, SA Jeffrey Cooper

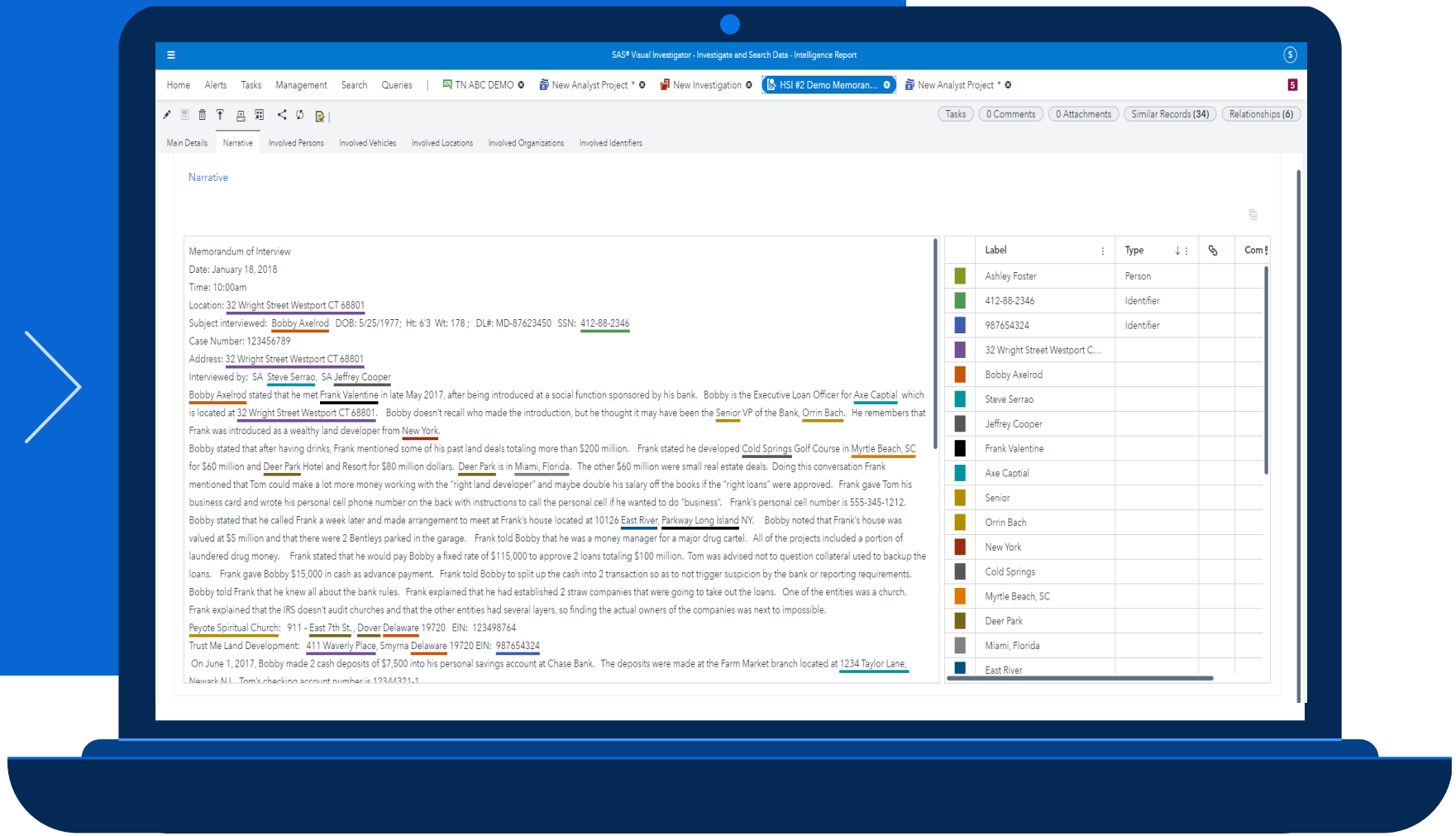
Bobby Axelrod stated that he met Frank Valentine in late May 2017 after being introduced at a social function sponsored by his bank. Bobby is the Executive Loan Officer for Axe Capital which is located at 32 Wright Street Westport CT 68801. Bobby doesn't recall who made the introduction, but he thought it may have been the Senior VP of the Bank, Orrin Bach. He remembers that Frank was introduced as a wealthy land developer from New York.

Bobby stated that after having drinks, Frank mentioned some of his past land deals totaling more than $200 million. Frank stated he developed Cold Springs Golf Course in Myrtle Beach, SC for $60 million and Dear Park Hotel and Resort for $80 dollars. Dear Park, is in Miami, Florida. The other $60 million were small real estate deals. During this conversation, Frank mentioned that Tom could make a lot more money working with the 'right land developer' and maybe double his salary off the books if the 'right loans' were approved. Frank gave Tom his business card and wrote his personal cell phone number on the back with instruction to call the personal cell if he wanted to do 'business.' Frank's personal cell number is 555-345-1212. Bobby stated that he called frank a week later and made arrangements to meet at Frank's house located at 10126 East River Parkway Long Island NY. Bobby noted that Frank's house was valued at $5 million and that there were 2 Bentleys parked in the garage. Frank told Bobby that he was a money manager for a major drug cartel. All of the projects included a portion of laundered drug money. Frank sated that he would pay bobby a fixed rate of $115,000 to approve 2 loans totaling $100 million. Tom was advised not to question collateral used to back up the loans. Frank gave bobby $15,000 in cash advance payment. Frank told Bobby to split up the cash into 2 transactions so as to not trigger suspicion by the bank or reporting requirements. Bobby told Frank that he knew all about the bank rules. Frank explained that he had established 2 straw companies that were going to take out the loans. One of the entities was a church. Frank explained that the IRS doesn't audit churches and that the other entities had several layers, so finding the actual owners of the companies was next to impossible.

Peyote Spiritual Church 911 East 7th St Dover Delaware 19720 EIN 987654324

Trust Me Land Development 411 Waverly Place Smyrna Delaware 19720 EIN 987654324

On June 1, 2017, bobby made 2 cash deposits of $7,500 into his personal savings account at Chase Bank. The deposits were made at the Farm Market branch located at 1234 Taylor Lane.


**Categorise** Identification elements risk categories

**Contextualize** Probable, possible or unlikely events

**Tense** Past present or future

**Score** High probability risk assessment in a collapsing timeframe

## "I intend to abuse a child tomorrow"

- Contextualize **Possible**
- Category **Sexual Term**
- Category **Child Access**
- Tense **Future**

**HIGH** vs **LOW**

## "it would be hot to abuse a child"

- Contextualize **Unlikely**
- Category **Sexual Term**
- Category **Child Access**

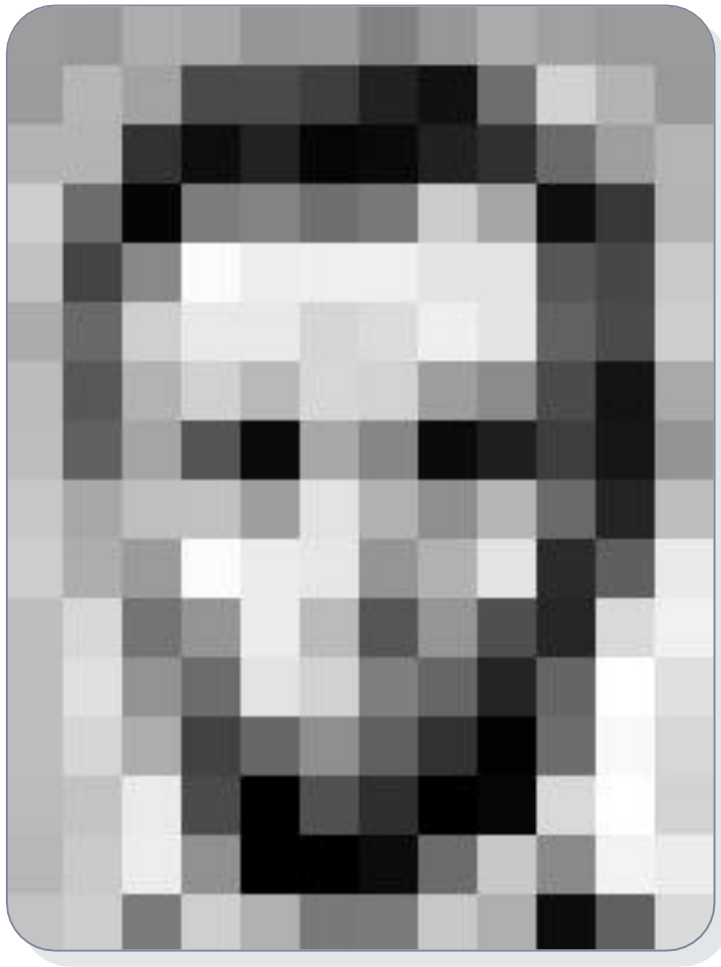
# Child Exploitation

Law enforcement agencies are using Natural Language Processing (NLP) to investigate crimes.

# Computer Vision

Enables systems to see, identify and process images or videos in the same way that human vision does.

# How Computer Vision Interprets Images



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| 155 | 182 | 163 | 74 | 75 | 62 | 33 | 17 | 110 | 210 | 180 | 154 |
| 180 | 180 | 50 | 14 | 34 | 6 | 10 | 33 | 48 | 106 | 159 | 181 |
| 206 | 109 | 5 | 124 | 131 | 111 | 120 | 204 | 166 | 15 | 56 | 180 |
| 194 | 68 | 137 | 251 | 237 | 239 | 239 | 228 | 227 | 87 | 71 | 201 |
| 172 | 105 | 207 | 233 | 233 | 214 | 220 | 239 | 228 | 98 | 74 | 206 |
| 188 | 88 | 179 | 209 | 185 | 215 | 211 | 158 | 139 | 75 | 20 | 169 |
| 189 | 97 | 165 | 84 | 10 | 168 | 134 | 11 | 31 | 62 | 22 | 148 |
| 199 | 168 | 191 | 193 | 158 | 227 | 178 | 143 | 182 | 106 | 36 | 190 |
| 205 | 174 | 155 | 252 | 236 | 231 | 149 | 178 | 228 | 43 | 95 | 234 |
| 190 | 216 | 116 | 149 | 236 | 187 | 86 | 150 | 79 | 38 | 218 | 241 |
| 190 | 224 | 147 | 108 | 227 | 210 | 127 | 102 | 36 | 101 | 255 | 224 |
| 190 | 214 | 173 | 66 | 103 | 143 | 96 | 50 | 2 | 109 | 249 | 215 |
| 187 | 196 | 235 | 75 | 1 | 81 | 47 | 0 | 6 | 217 | 255 | 211 |
| 183 | 202 | 237 | 145 | 0 | 0 | 12 | 108 | 200 | 138 | 243 | 236 |
| 196 | 206 | 123 | 207 | 177 | 121 | 123 | 200 | 175 | 13 | 96 | 218 |


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|---|---|---|---|---|---|---|---|---|---|---|---|
| 157 | 153 | 174 | 168 | 150 | 152 | 129 | 151 | 172 | 161 | 155 | 156 |
| 155 | 182 | 163 | 74 | 75 | 62 | 33 | 17 | 110 | 210 | 180 | 154 |
| 180 | 180 | 50 | 14 | 34 | 6 | 10 | 33 | 48 | 106 | 159 | 181 |
| 206 | 109 | 5 | 124 | 131 | 111 | 120 | 204 | 166 | 15 | 56 | 180 |
| 194 | 68 | 137 | 251 | 237 | 239 | 239 | 228 | 227 | 87 | 71 | 201 |
| 172 | 105 | 207 | 233 | 233 | 214 | 220 | 239 | 228 | 98 | 74 | 206 |
| 188 | 88 | 179 | 209 | 185 | 215 | 211 | 158 | 139 | 75 | 20 | 169 |
| 189 | 97 | 165 | 84 | 10 | 168 | 134 | 11 | 31 | 62 | 22 | 148 |
| 199 | 168 | 191 | 193 | 158 | 227 | 178 | 143 | 182 | 106 | 36 | 190 |
| 205 | 174 | 155 | 252 | 236 | 231 | 149 | 178 | 228 | 43 | 95 | 234 |
| 190 | 216 | 116 | 149 | 236 | 187 | 86 | 150 | 79 | 38 | 218 | 241 |
| 190 | 224 | 147 | 108 | 227 | 210 | 127 | 102 | 36 | 101 | 255 | 224 |
| 190 | 214 | 173 | 66 | 103 | 143 | 96 | 50 | 2 | 109 | 249 | 215 |
| 187 | 196 | 235 | 75 | 1 | 81 | 47 | 0 | 6 | 217 | 255 | 211 |
| 183 | 202 | 237 | 145 | 0 | 0 | 12 | 108 | 200 | 138 | 243 | 236 |
| 196 | 206 | 123 | 207 | 177 | 121 | 123 | 200 | 175 | 13 | 96 | 218 |


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# Digitization of Paper

Governments use Computer Vision (CV) with Machine Learning and Text Analytics to quickly pinpoint and extract information from paper files.

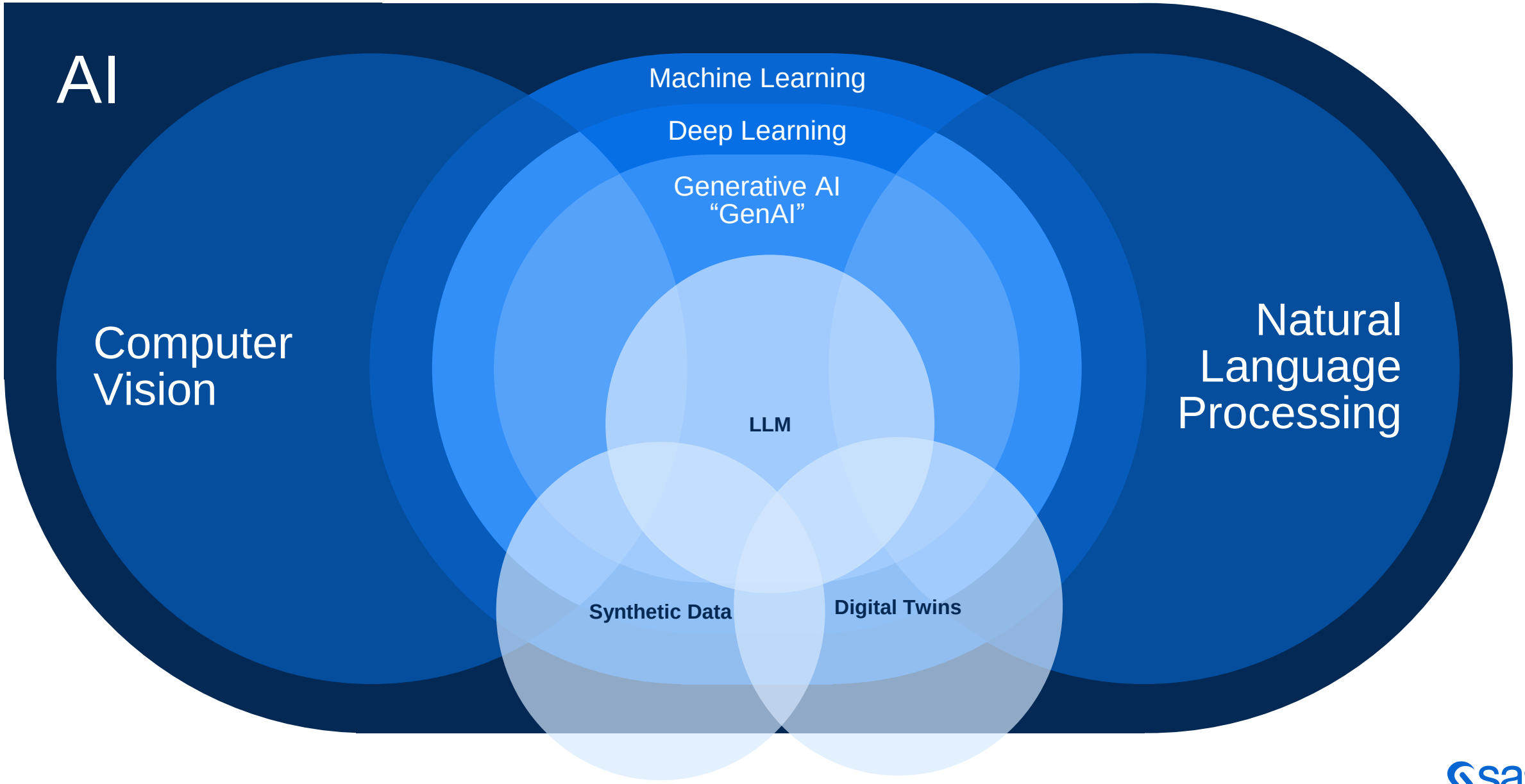
# Maintenance Oversight of Equipment

Utilities are using Computer Vision (CV) to monitor equipment.

# Deep Learning

A type of machine learning used in recognizing speech, identifying objects in images, generating new content, and more.

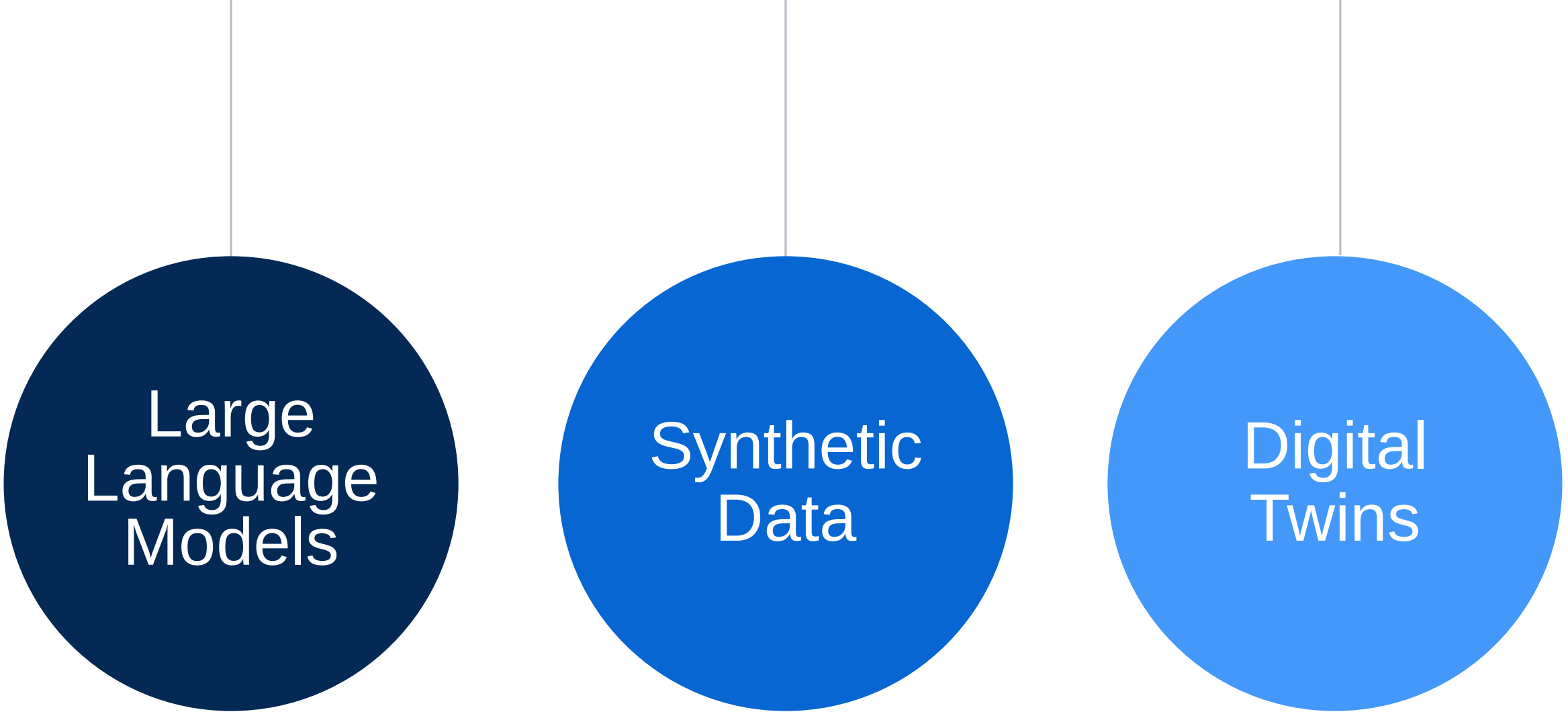
Comprised of three or more neural networks.



# What is GenAI?

# GenAI

An AI method that learns from real-world data to generate new content, such as text, images, audio, code, videos, and tabular data.



# Large Language Models (LLMs)

Deep learning algorithms that recognize, summarize, translate, predict, and generate content

# Public Commentary/ Regulations

Government agencies are using Natural Language Processing (NLP) with Large Language Models (LLMs) to glean insights from copious amounts of public commentary on regulations.

# Specialized Copilot

Large Language Models (LLMs) will help governments mine their own data and receive guidance on furthering their investigations or research.

# Synthetic Data

Artificial data that’s manufactured.

# Cyber Security

Organizations are using synthetic data and digital twins to simulate system environments in order to identify points of entry and to trick hackers.

# Digital Twins

A virtual model designed to accurately reflect a physical object, system, or environment.

# Policy Making

Governments are ascertaining the ‘winners’ and ‘losers’ of potential tax changes before regulations are implemented with the use of digital twins.

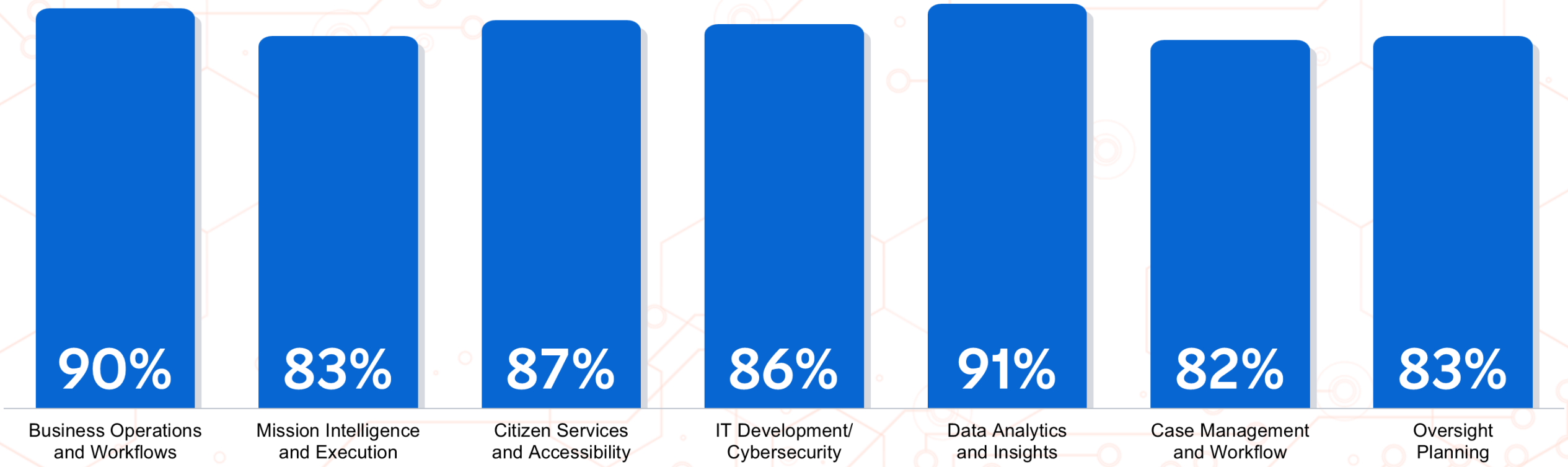
# Flood Prediction

Governments are using digital twins to predict floods, enabling them to anticipate needs and allocate resources.

# Gauging the Impact of Generative AI on Government

## Survey by FedScoop

Top Types of Generative AI Solutions that Organizations Are Assessing:

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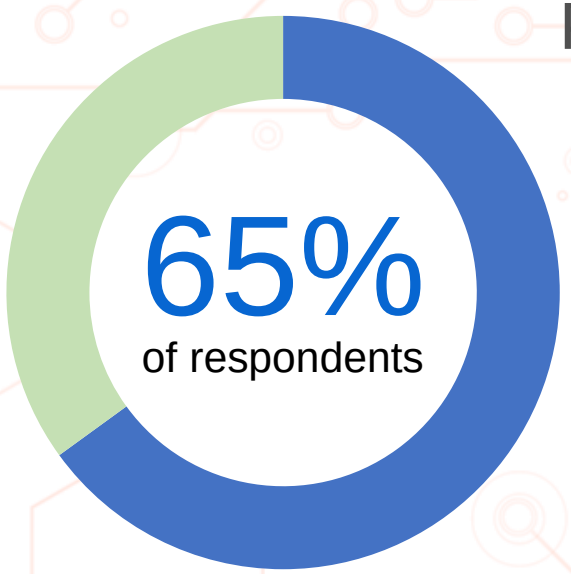
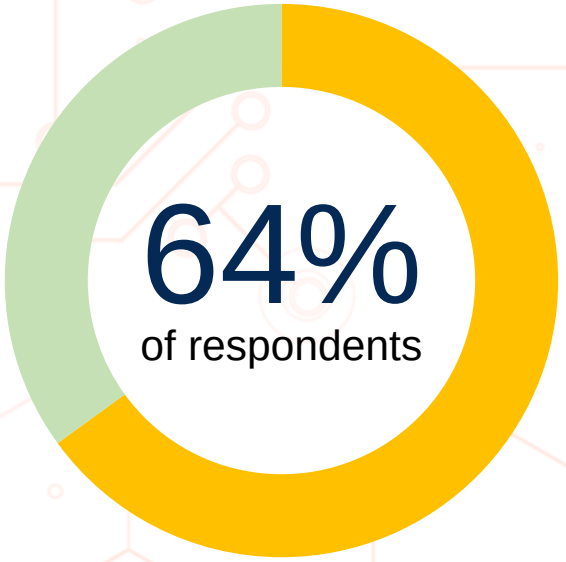
# Gauging the Impact of Generative AI on Government

## Survey by FedScoop

### Primary Benefits




**Technical Support**

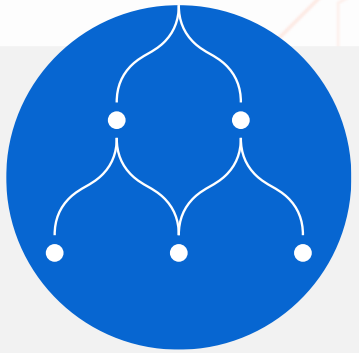



**Ability to reduce the time required to complete work processes**

# Why now?

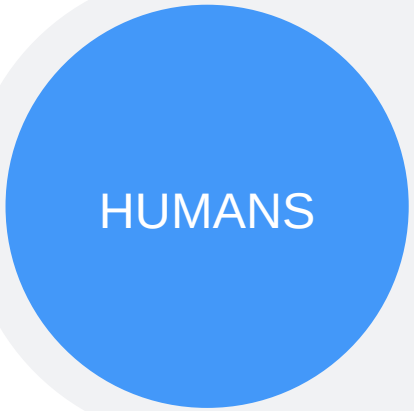
Compute Power

Data



Analytic Models

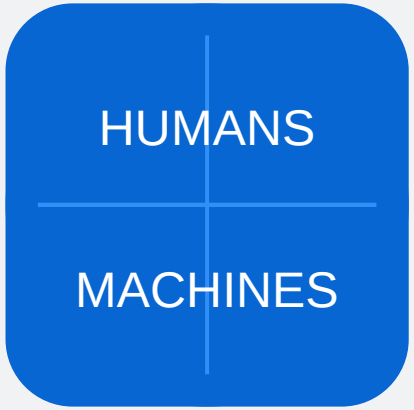
# What are Humans and Machines good at?




- Common Sense
- Intuition
- Creativity
- Empathy
- Versatility

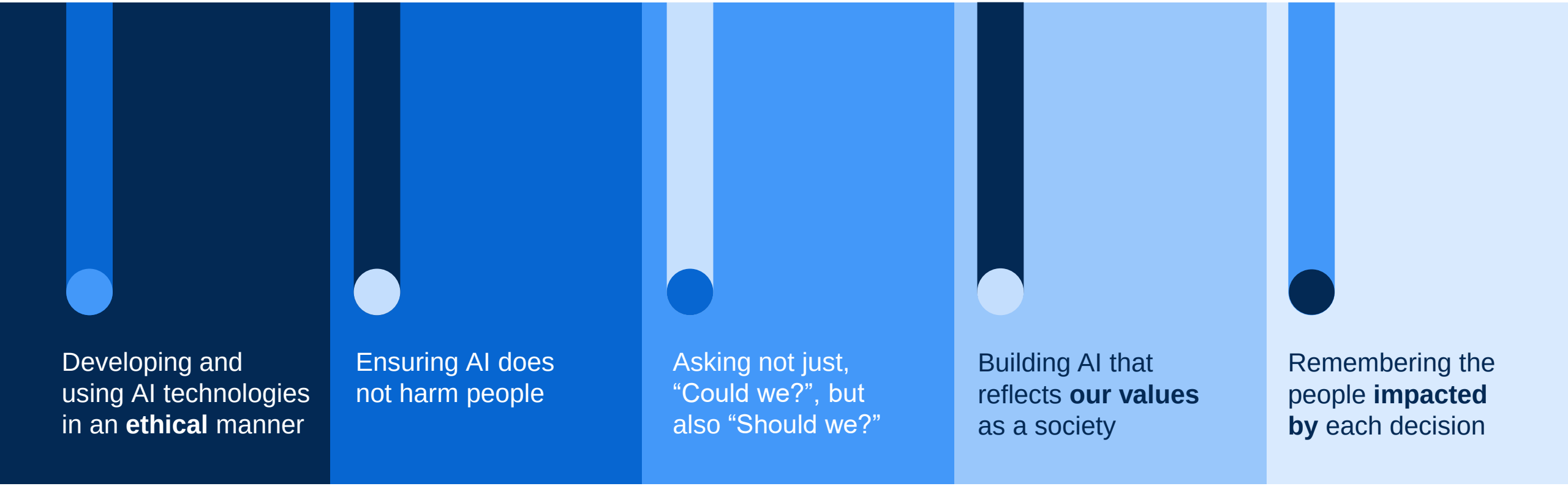

- Large Data Sets
- Complex Calculations
- Learning
- Automation

# When are humans and machines **better together?**




+ Making sense of patterns and trends surfaced from large data sets
+ Interpreting results from complex calculations
+ Assessing impacts of simulated scenarios
+ Handling exceptional cases apart from those that can be automated

# Trustworthy AI



# Learn more about AI

Learn more about
AI in the public Sector

Learn more about
Generative AI at SAS

# Thank you.

Jennifer Robinson
jennifer.robinson@sas.com

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