

# Shaping future of AI through human intelligence



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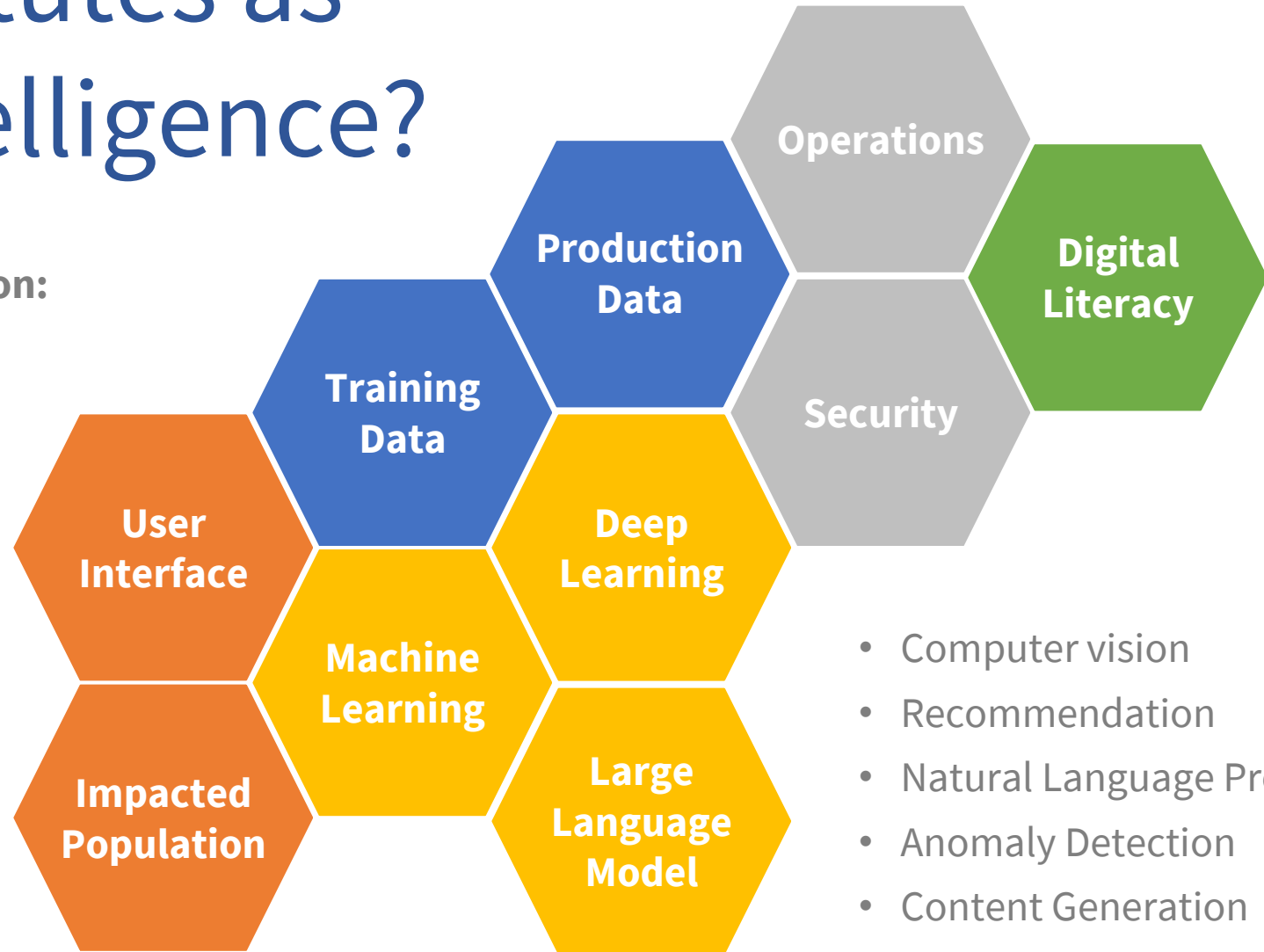
# We are living in a golden era of algorithmic renaissance

- ⚠ Skilled digital-ready workforce & culture
- ⚠ Data quality
- ⚠ Privacy, legal, and regulatory compliance
- ⚠ IT infrastructure & cybersecurity
- ⚠ Acquisition practices
- ⚠ Oversight & monitoring



# What constitutes as artificial intelligence?

**Existing governmental definition:**  
FY2019 and FY2020 National  
Defense Authorization Acts



- Computer vision
- Recommendation
- Natural Language Processing
- Anomaly Detection
- Content Generation

# Tale of two cities on artificial intelligence

- ✓ **TRANSFORMATION**
- ✓ **MODERNIZATION**
- ✓ **PRODUCTIVITY GAINS**

- Unable to scale prototypes to production solutions
- Cringe-worthy headlines
- Questionable data quality
- Rigid & risky contracts
- Runaway costs not consistent with value delivered
- Surprised by “hidden” AI

# The winding road ahead on artificial intelligence

Cognition

Clear view on “good”

Data sparsity

Regulatory frameworks

Governance structure through CAIO

# Nothing *automagical* about successful implementation of AI

- 1 Focused on the questions, not on the technology
- 2 It's all about data because algorithms are not biased
- 3 Managing AI implementation as a team sport
- 4 AI is not Lord of the Rings, different models are good at different things
- 5 If the future is dependent on AI, then train your people to use it well
- 6 Everyone wants innovations, no wants to change – that doesn't work
- 7 Analytics is not IT, IT is not analytics
- 8 Ok to start with adjacent governance but don't stay on borrowed road

Successful artificial intelligence  
requires sound human intelligence  
enabled by our digital-ready workforce.



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