

**AIPIO 2019**

# Upgrading Technology v Upskilling Humans

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# Changing Landscapes

Technology has always been part of the Intelligence Cycle

Collections Methods have evolved:

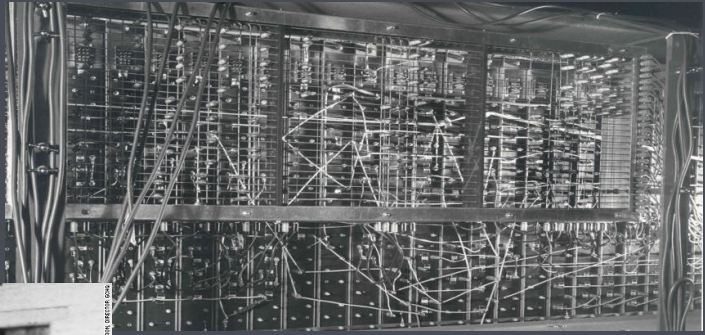
- Noah uses a Dove to create the concept of Reconnaissance



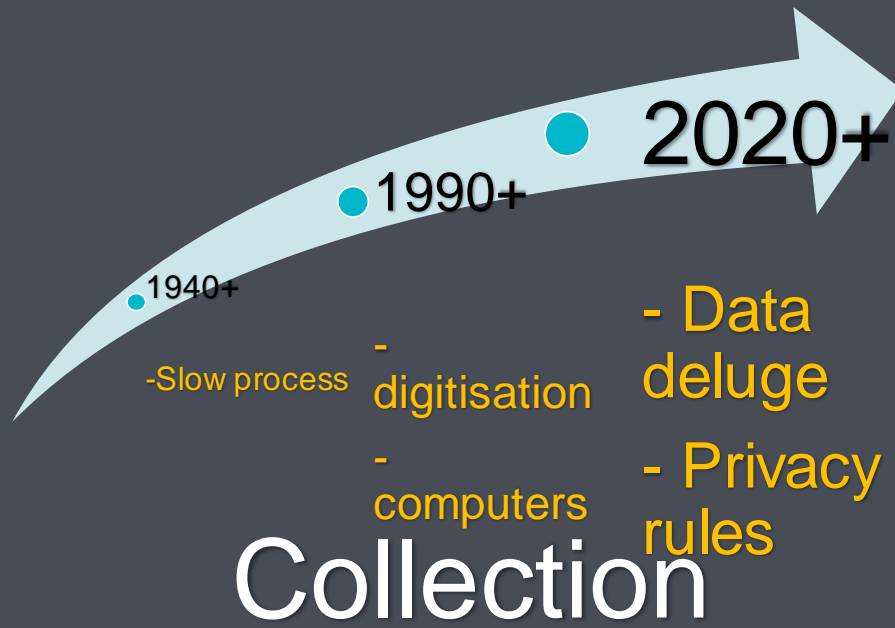
# Changing Landscapes

Alan Turing creates a mechanical machine the 'Bombe'

(Early form of Computer) to crack the Enigma code\*



# Changing Landscapes



# Human Factors

John Munro



# Human Factors

## Recruitment

- Qualifications
- Aptitude
- Career Path
- Training
- Upskilling

# Data Volumes

Volumes of data is increasing at alarming rates

- By 2025 data volumes will be at least 10 times the level today
- Humans cannot review everything
- Technology handles the heavy lifting:
  - Filtering
  - Storage
  - Alerting

# Data Volumes

## Technology Advances

- Collecting masses of data now for future use
- No need to collect and assess at the time of need
- Reaction time in near real time

## Human Restrictions

- Privacy rules
- Legal objections
- Compliance



# Investing in Technology or Humans

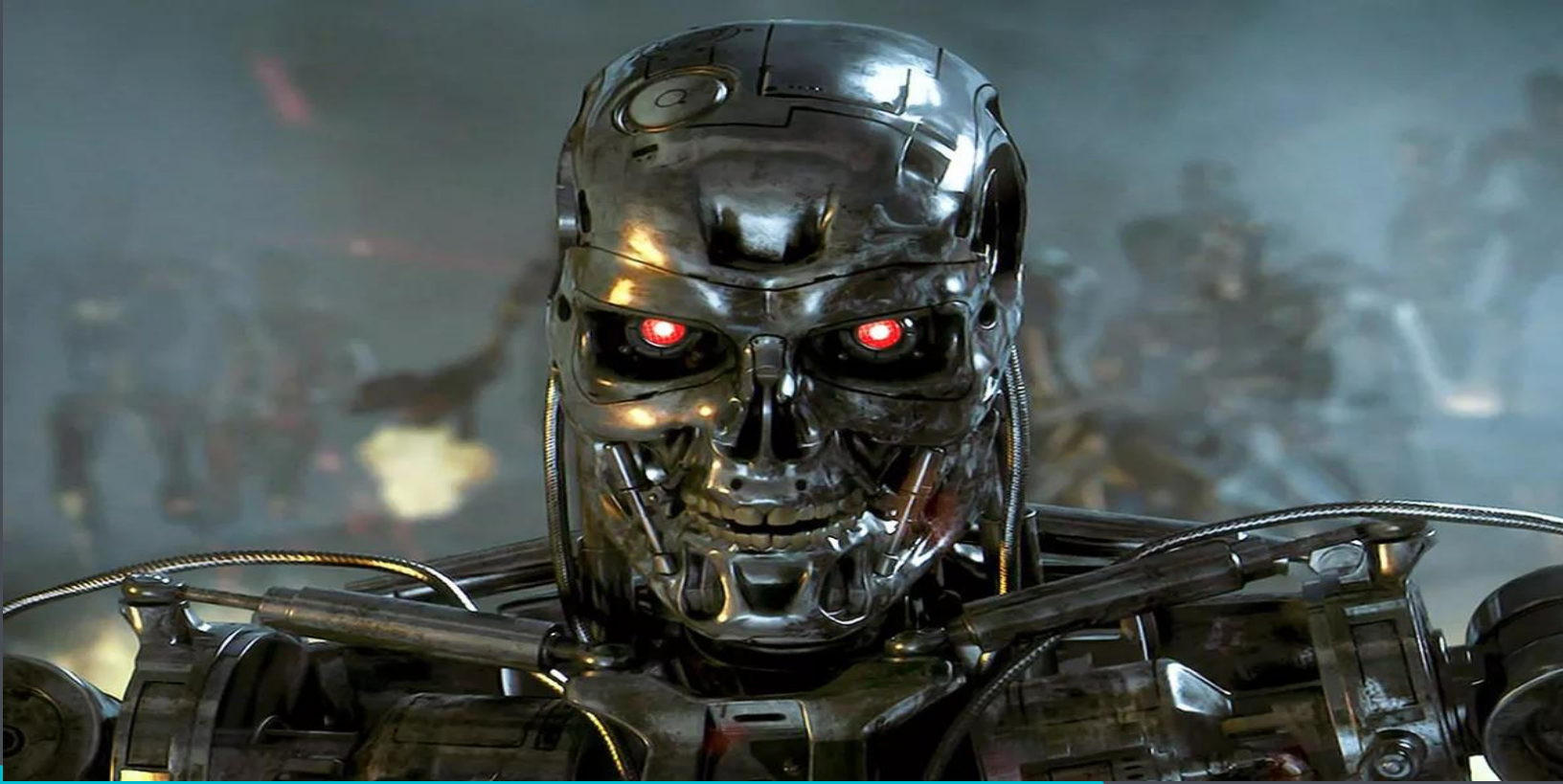
- Both are required
- Technology is necessary to handle the data deluge issues
- Humans are still required to make judgements

(At least for the foreseeable future)

- Recruitment
- Retaining
- Managing
- Upskilling/Training

# AI and Machine Learning

What's the worst that can happen?



FROM  
INFORMATION  
TO INSIGHT

# AIPIO 2019



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