



# Emerging technologies, Disinformation, and Decision-making: *A Conceptual and Historical Analysis*

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# Scope and aims of the paper

## Research Question:

How does the convergence of disinformation campaigns with emerging technologies affect political/military decision making?

Disinformation: “false information deliberately and often covertly spread (as by the planting of rumours) in order to influence public opinion or obscure the truth

## Importance:

- Increased concerns over disinformation operations
- Very little academic analysis of the impact of disinformation on strategic decision making
- Growing need to understand impact of emerging technologies on strategic/military decision making in a changing security environment

Figure 2: Reconfigured vs fabricated misinformation

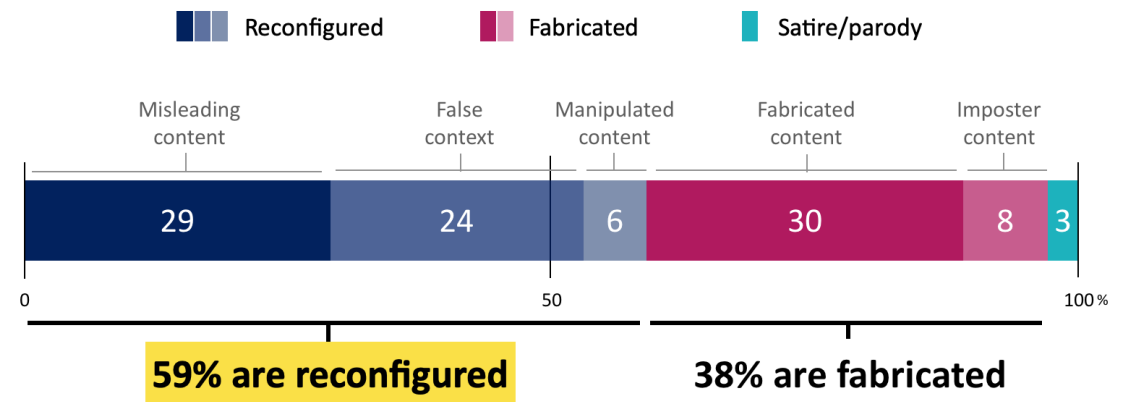


Figure 2 shows the proportion of reconfigured (N=133) and fabricated (N=86) misinformation in the sample (N=225) and the types of misinformation that constitute both reconfigured and fabricated misinformation.

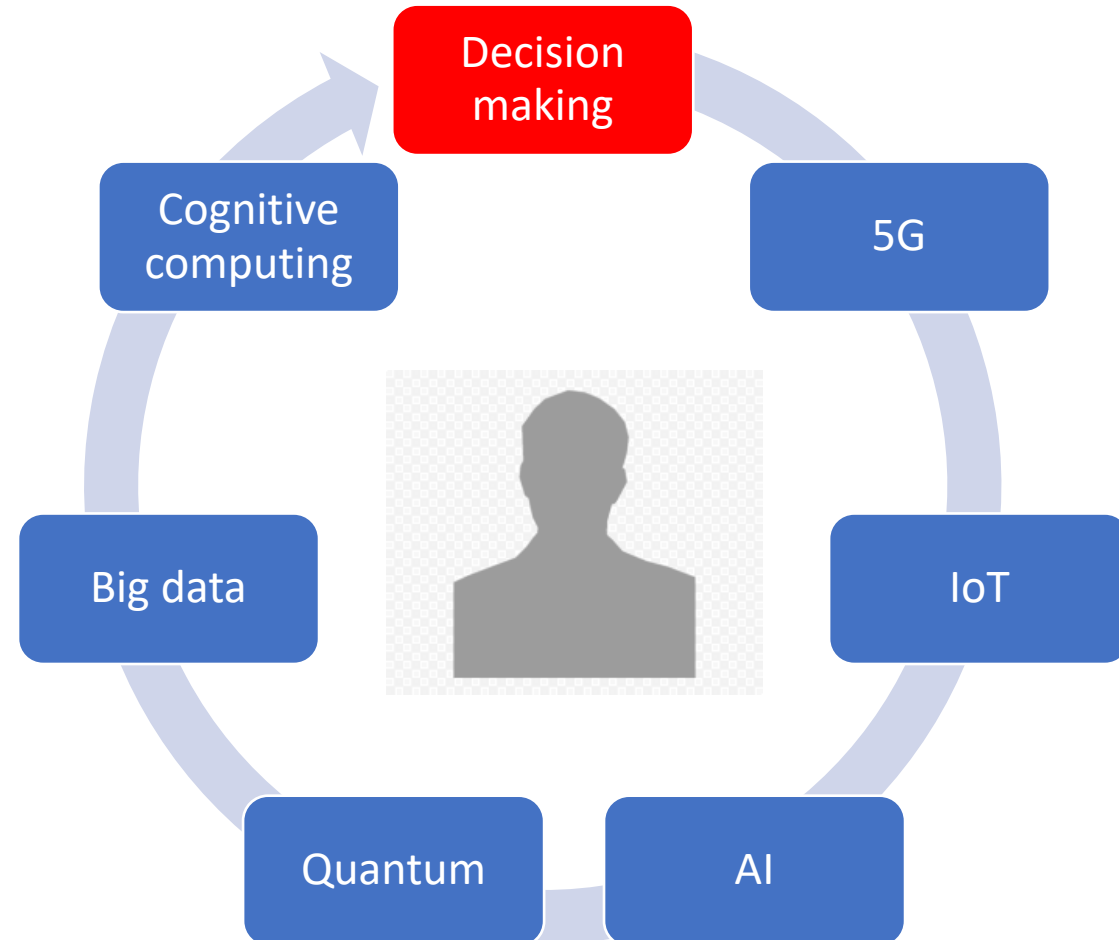


# 1. Technological analysis

***How do emerging technologies impact decision making?***

- *Speed (latency)*
- *Accuracy*
- *Scope/volume of information*
- *Processing power*
- *Curation*
- *Fact checking*

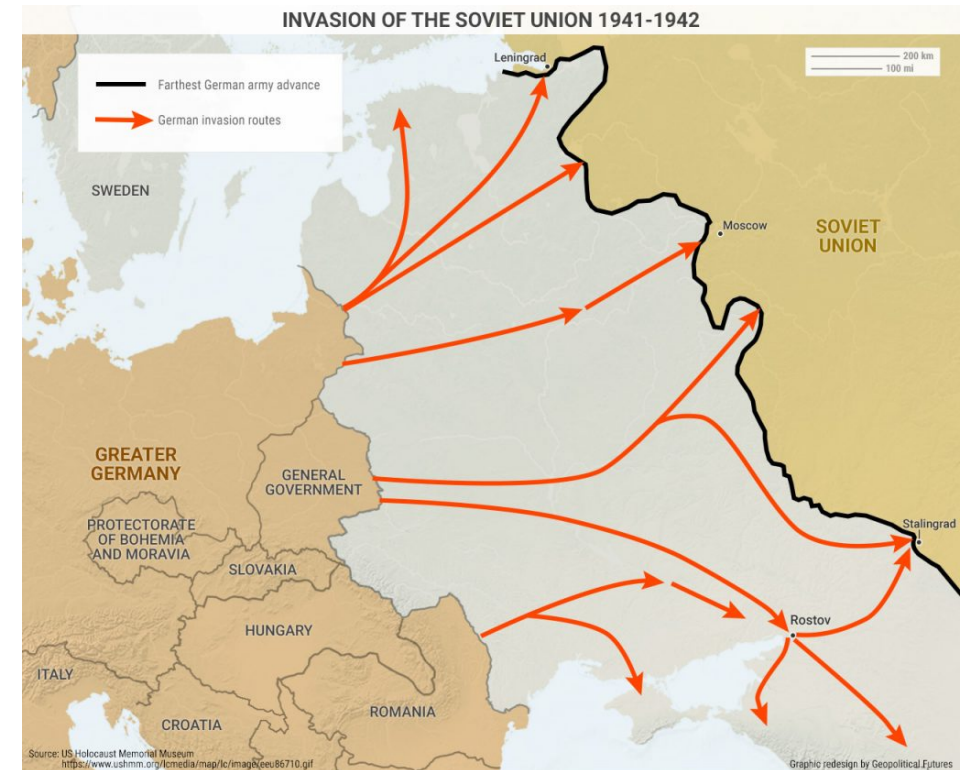
*(but also trust, bias, fallibility)*



## 2. Disinformation and decision making

### *What is (good) decision making predicated on?*

- Access to information
- Reliability and integrity of the information
- Situational awareness
- Rational assessment of information
- Cognitive factors
- Organisational factors
- Counterintelligence operations
- Deception – through disinformation

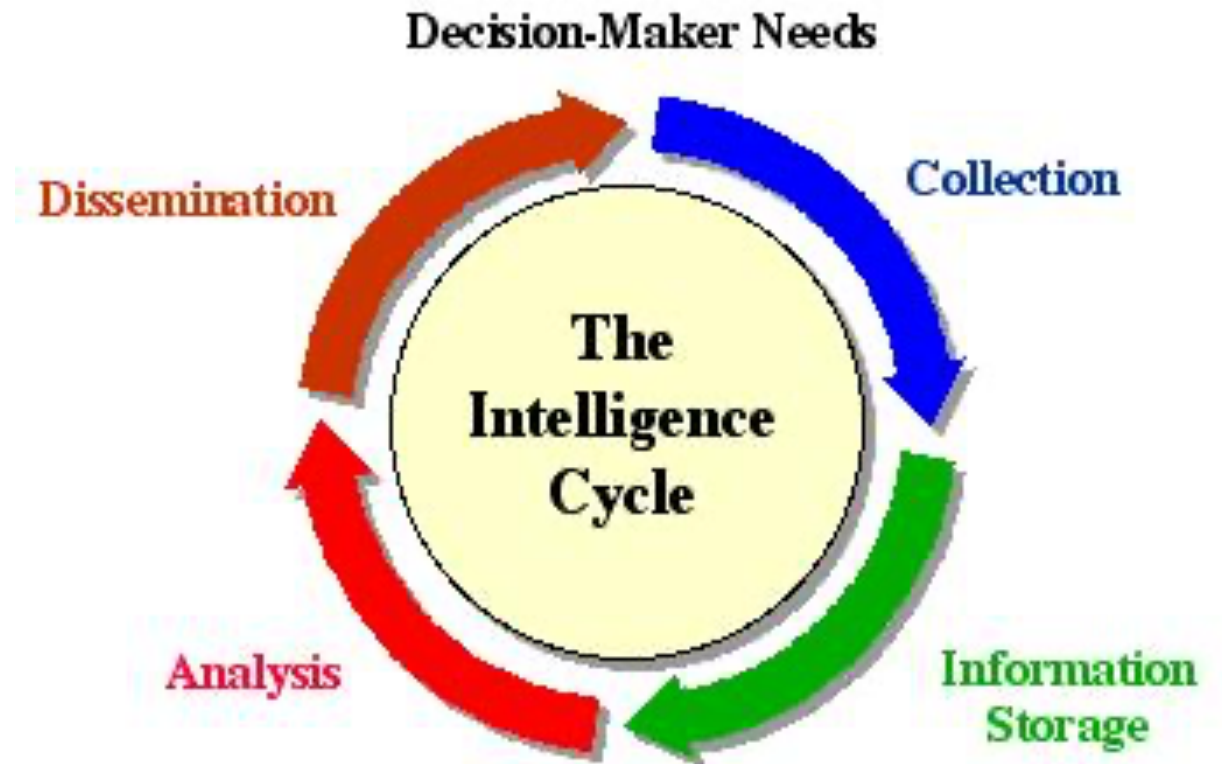


Hitler's operation on the Eastern front in WW2 displayed many elements of 'bad' decision making, including relating to force concentration/dispersal and technological risks

## 2. Existing Models – MDMP/Intelligence Cycle

### Military Decision-Making Process

- Receipt of Mission
- Mission Analysis
- Course of Action (COA) Development
- COA Analysis
- COA Comparison
- COA Approval
- Orders



# 3. Historical analysis

Disinformation operations and decision making. What can we learn from history?

Cold War	Early-post Cold War	Recent hybrid conflicts
Tet offensive	Former Yugoslavia	ISIS (Iraq/Syria/Libya)
Cuban Missile Crisis	Afghanistan	Ukraine (eastern flank)



*What are the **common** lessons we can derive about the impact of technology-enabled disinformation on decision making?*

# Conclusion/Findings – Implications for Decision Makers

- **Technological analysis:** The range of technologies have a common societal and cognitive impact – *trust, reliability* are central factors for decision making
- **Decision-making/models:** Existing decision-making models/processes are deficient – remodeling needs to happen to place greater emphasis on cognitive and social effects of technologies
- **Historical analysis:** Demonstrates how technologies influenced (a) strategic surprise (b) strategic communications (c) public support/perceptions (d) informational and cognitive processes

***Implications?*** Working on human/machine teaming solutions and processes essential, training implications – verification, exercises, etc. need to take on technology-enabled manipulation and disinformation dynamics, and focus more on socio-psychological effects

*Questions?*

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