

# *Understanding AI in Security Applications*

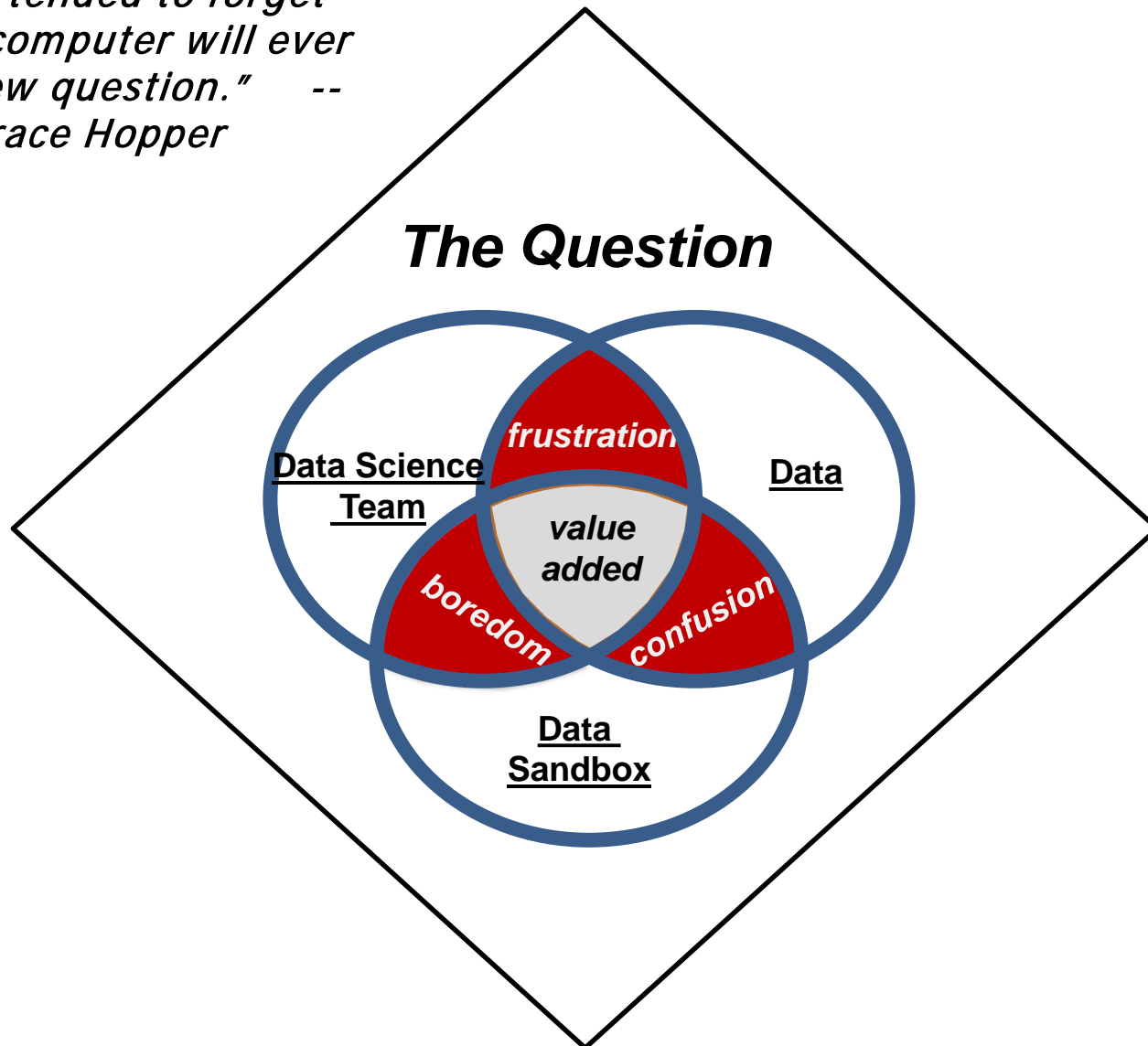
LTC David Beskow

[dbeskow@andrew.cmu.edu](mailto:dbeskow@andrew.cmu.edu)

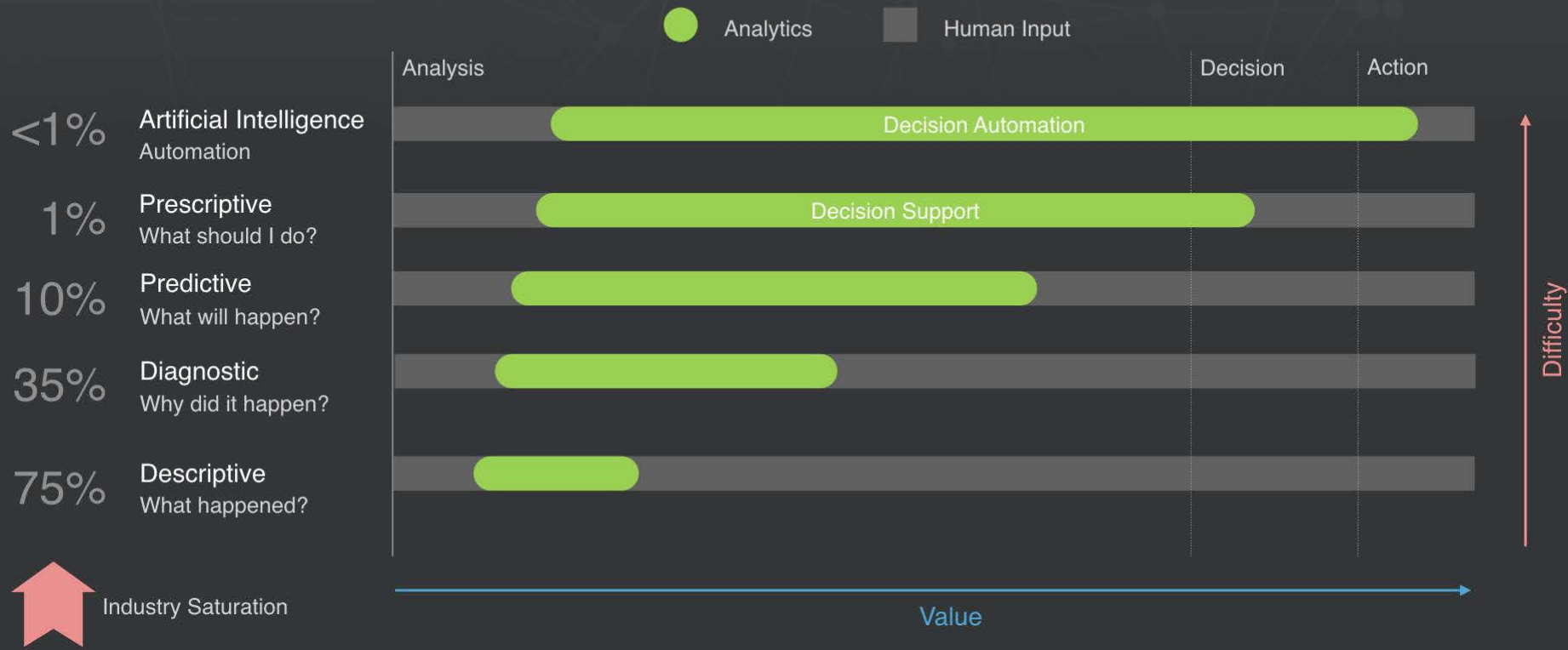
# Data Science Requirements



*"We've tended to forget  
that no computer will ever  
ask a new question." --  
Grace Hopper*



# WHAT CAN WE DO WITH DATA SCIENCE



# What does this look like in disinformation?

The question we would like AI to answer:

*“Predict the next Russian disinformation narrative and target culture or sub-culture, and automatically deploy culturally-aware counter-narrative.”*

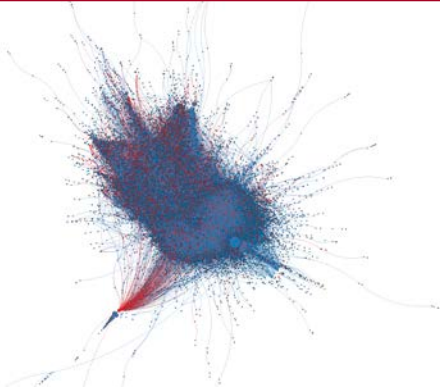
The question we are starting to answer with ML:

*“Can we characterize past disinformation campaigns and rapidly identify key factors such as bots and memes.”*

# Where we are today

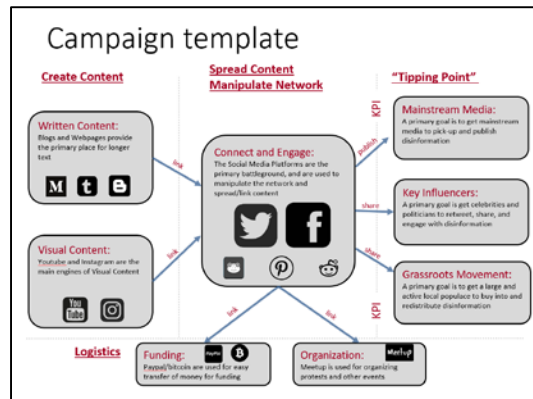
## bot-hunter:

Use advanced ML algorithms to detect automated bots in curated streams



## meme-hunter:

Use state of the art multi-model deep learning to extract memes from curated event streams



## Sketch-IO:

Begin to sketch out major components of a disinformation campaign

# Limitations of Supervised ML

