

*Telefonica*

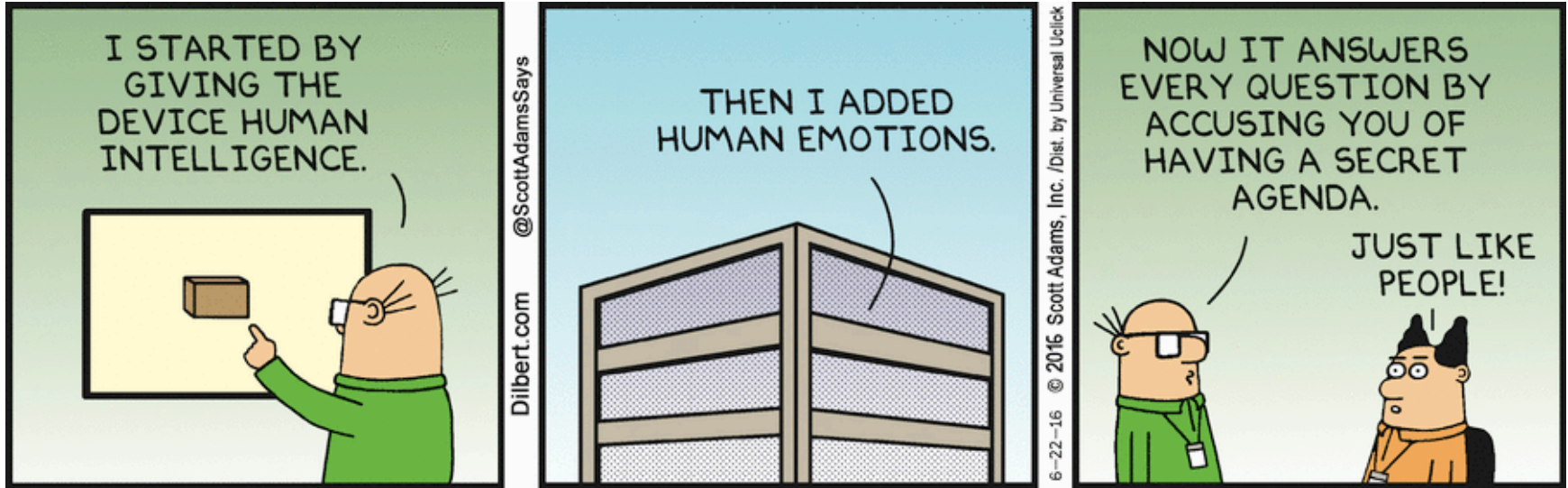
# Nourishing Network Control Intelligence

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October 2017



**WE CHOOSE IT ALL**

# What Intelligence Requires



- A purpose beyond divergent goals
- Aliment to grow and strengthen
- Guidance from the elder and superior ones

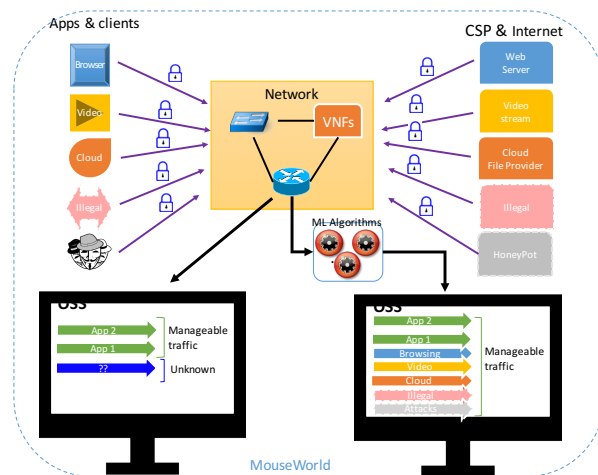
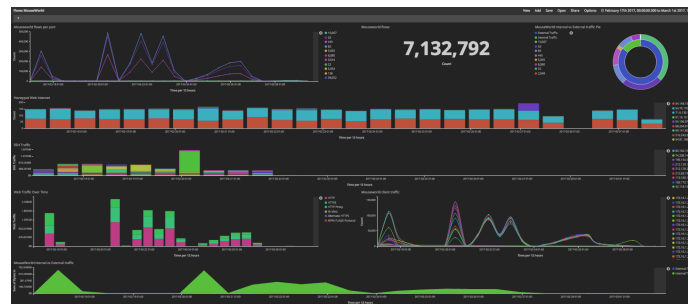
# The Raison D'être: Automation

- Taking advantage of the Software Network
  - Elasticity
  - Homogeneity
  - Programmability
  - Abstraction
- In a changing network landscape
  - Pervasive encryption
  - Internet stack evolution
  - And the advent of 5G



# Data, Food for Thought

- Many mechanisms proposed
  - But not demonstrated in operational conditions
- Heavily dependent on training and testing data
  - Datasets are hard to obtain
- Datasets are even harder to apply
  - Incorrect tagging
  - Unknown biases
- A hybrid environment
  - Combination of synthetic and real data
  - Controlled datasets



# Putting the Human in the Loop

- Integrated development environments
  - A single intent-based entry point
  - Supporting a dialectic way
- Open collaborative experimentation
  - Try and train
  - Support data generation
- AAAAAA...
  - Audit track: the who, the what, the when
  - Security in all aspects

