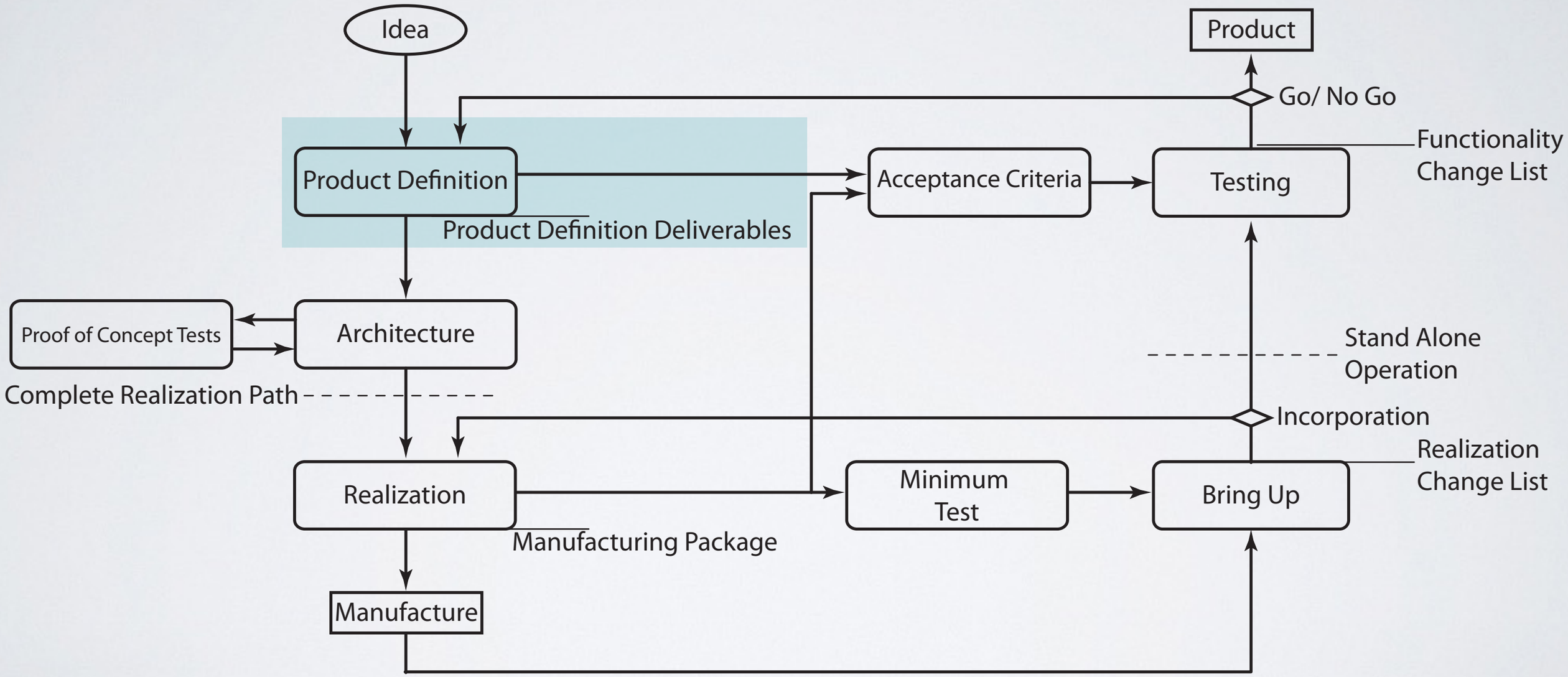
PRODUCT DEFINITION

The Engineer Accelerator
Malcolm Knapp

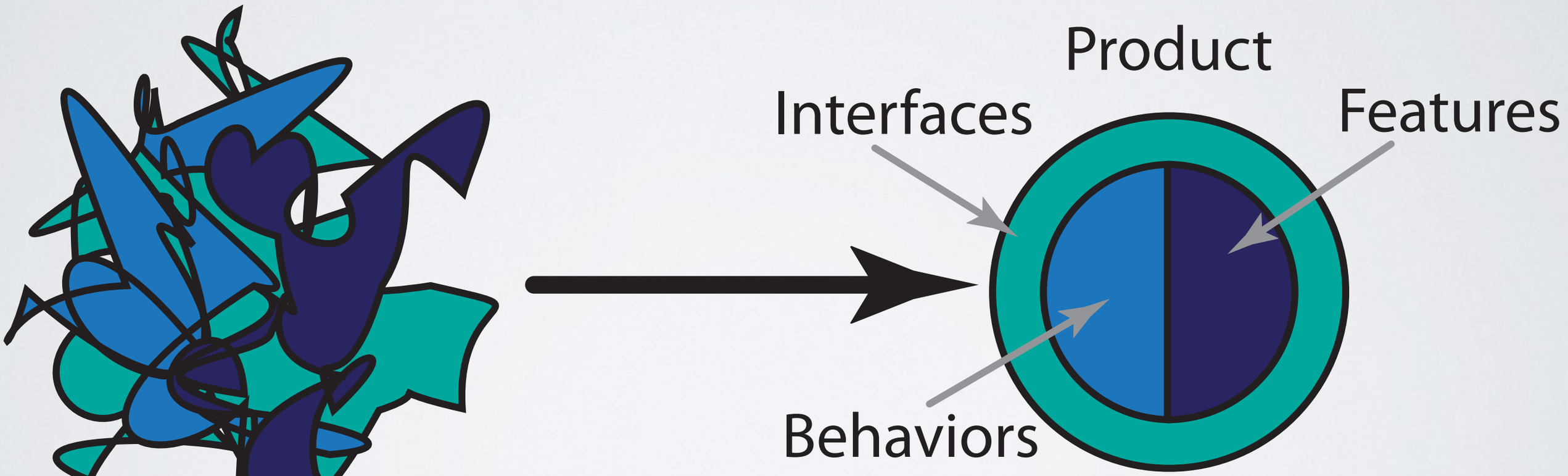
DEVELOPMENT PHASE



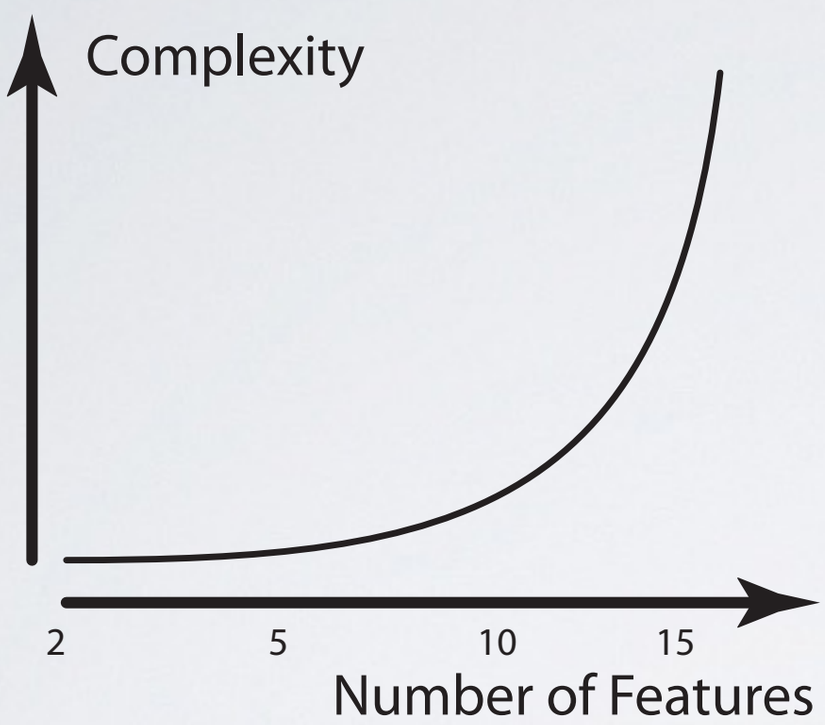
GOAL

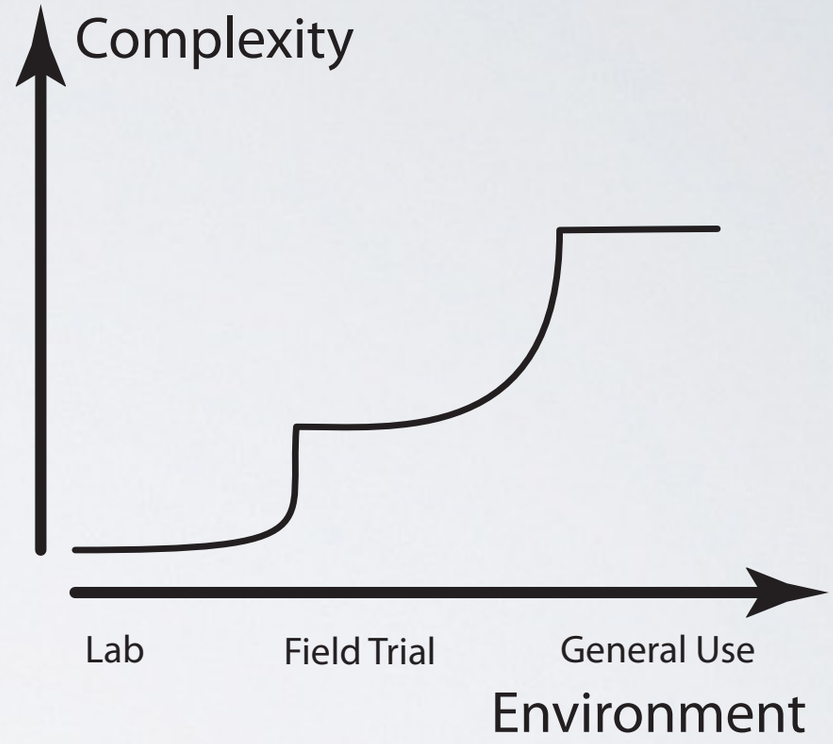
TO MAKE A COMPLETE DEFINITION OF WHAT IS BEING MADE

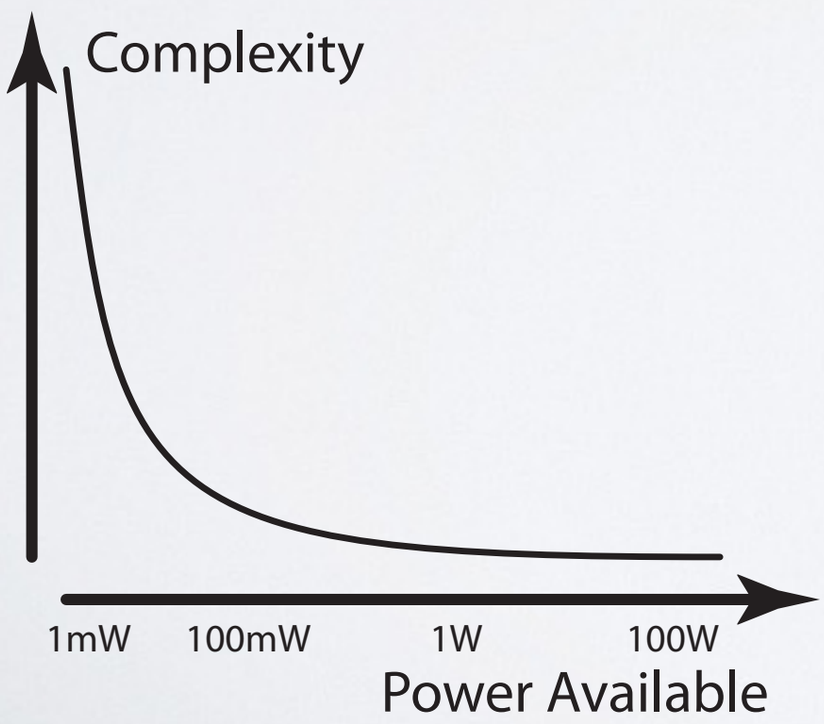
WHAT IS THE PROCESS?

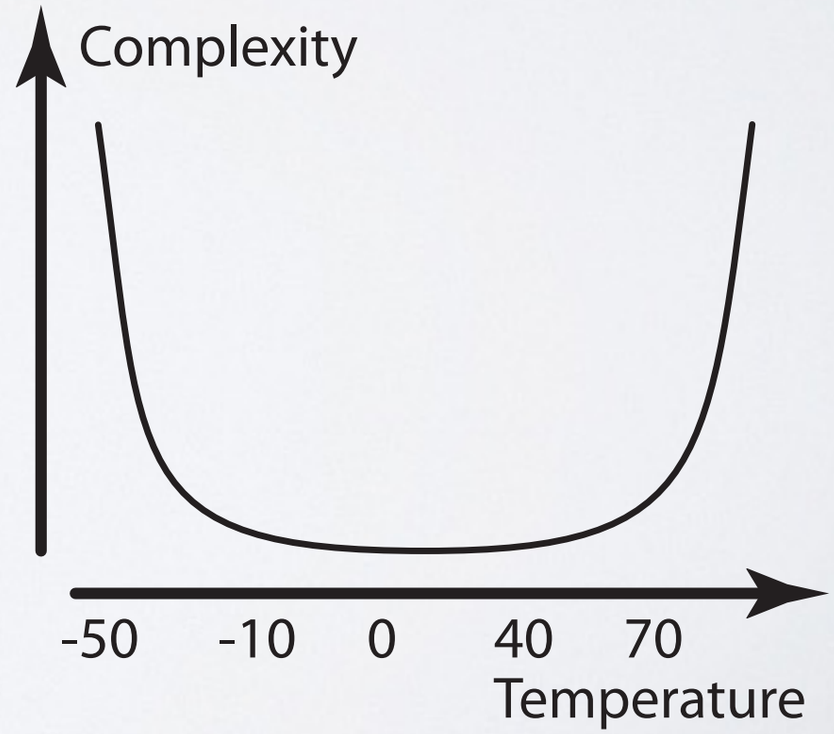


COMPLEXITY

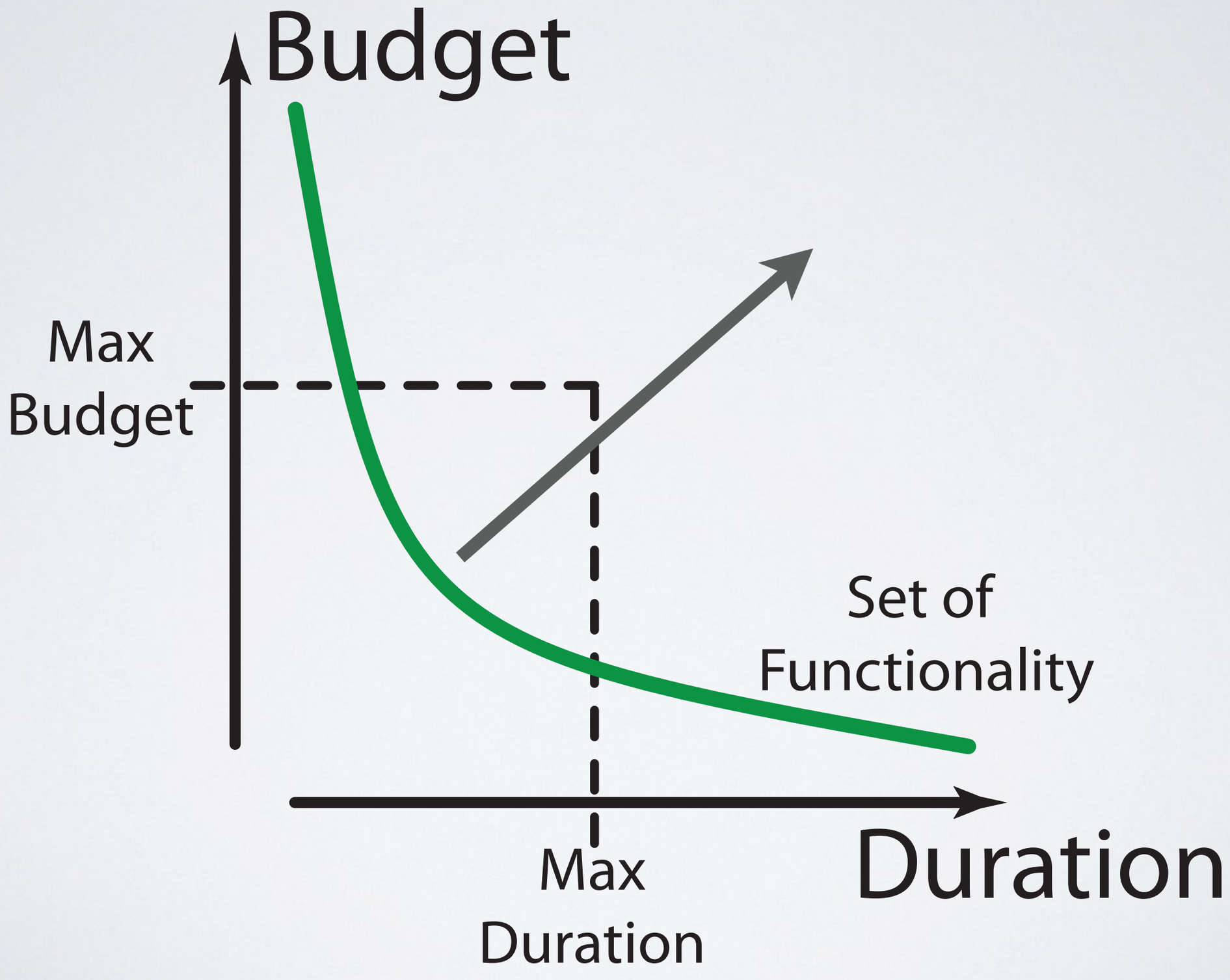

Complexity
2
5
10
15
Number of Features


Complexity
Lab
Field Trial
General Use
Environment

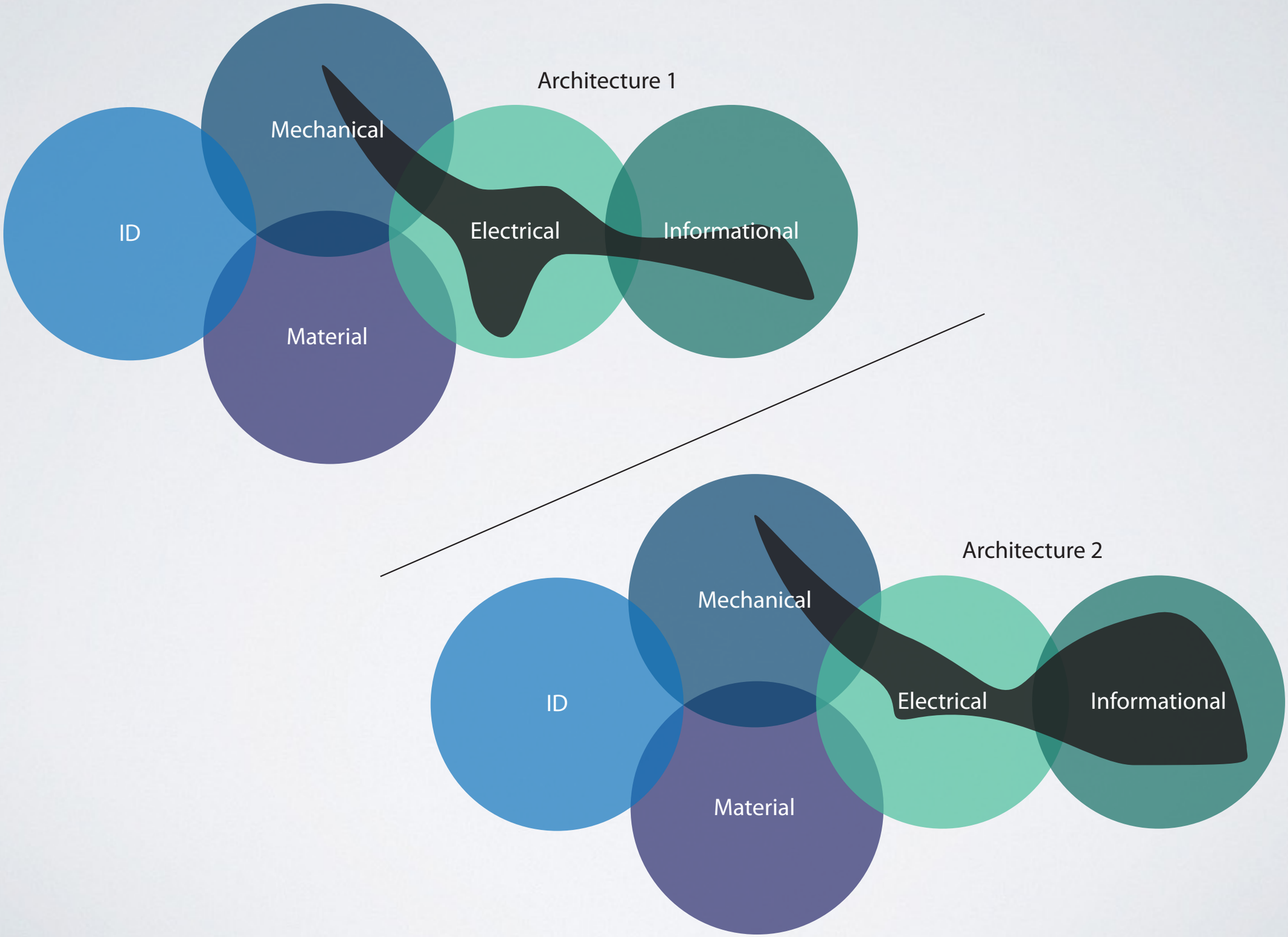

Complexity
1mW
100mW
1W
100W
Power Available


Complexity
-50
-10
0
40
70
Temperature

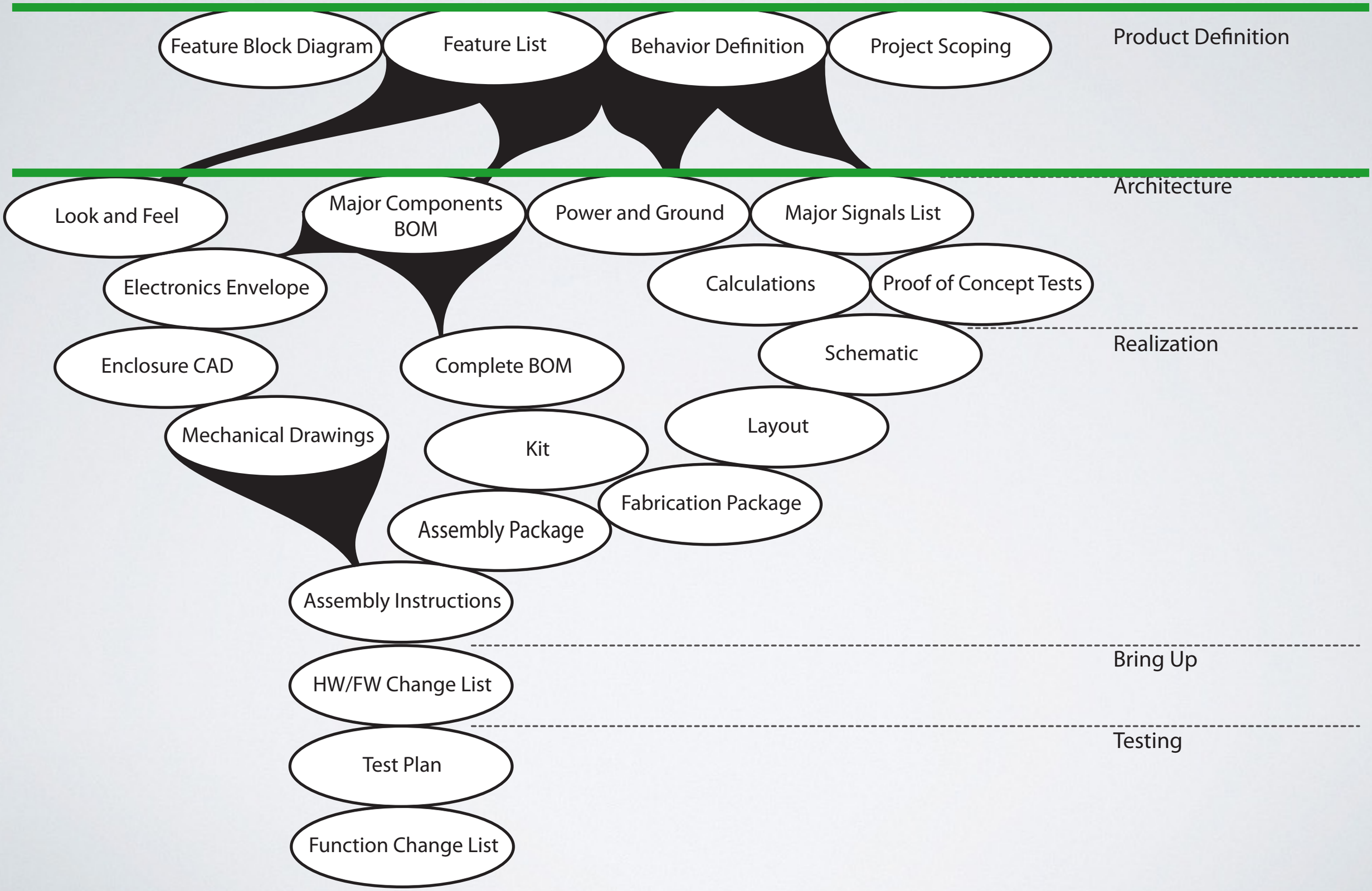
COST/DURATION TRADE OFF



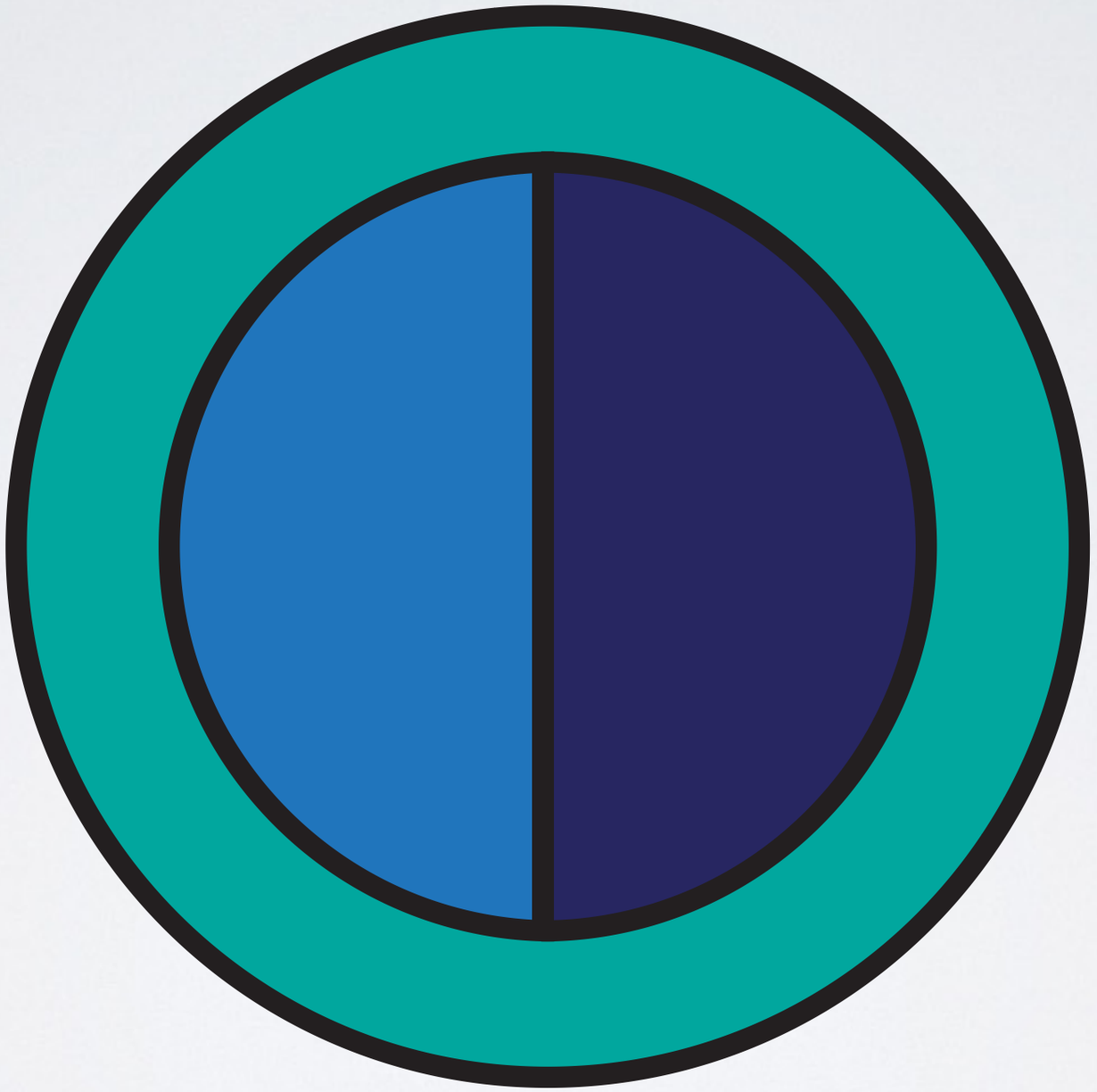
COMPLEXITY DISTRIBUTION



DESIGN DEPENDENCY



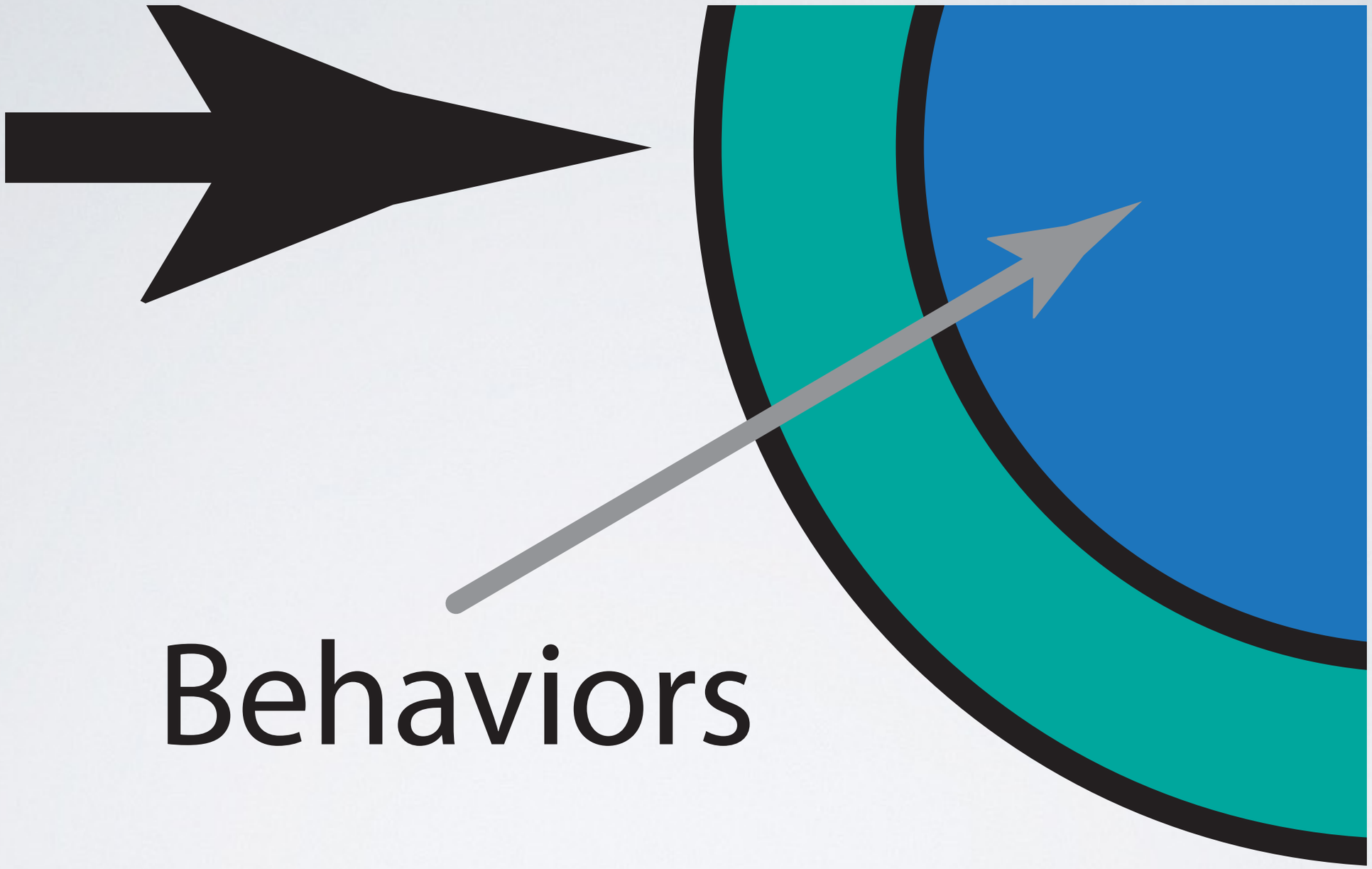
PRODUCT



PRODUCT CHARACTERISTICS

Features

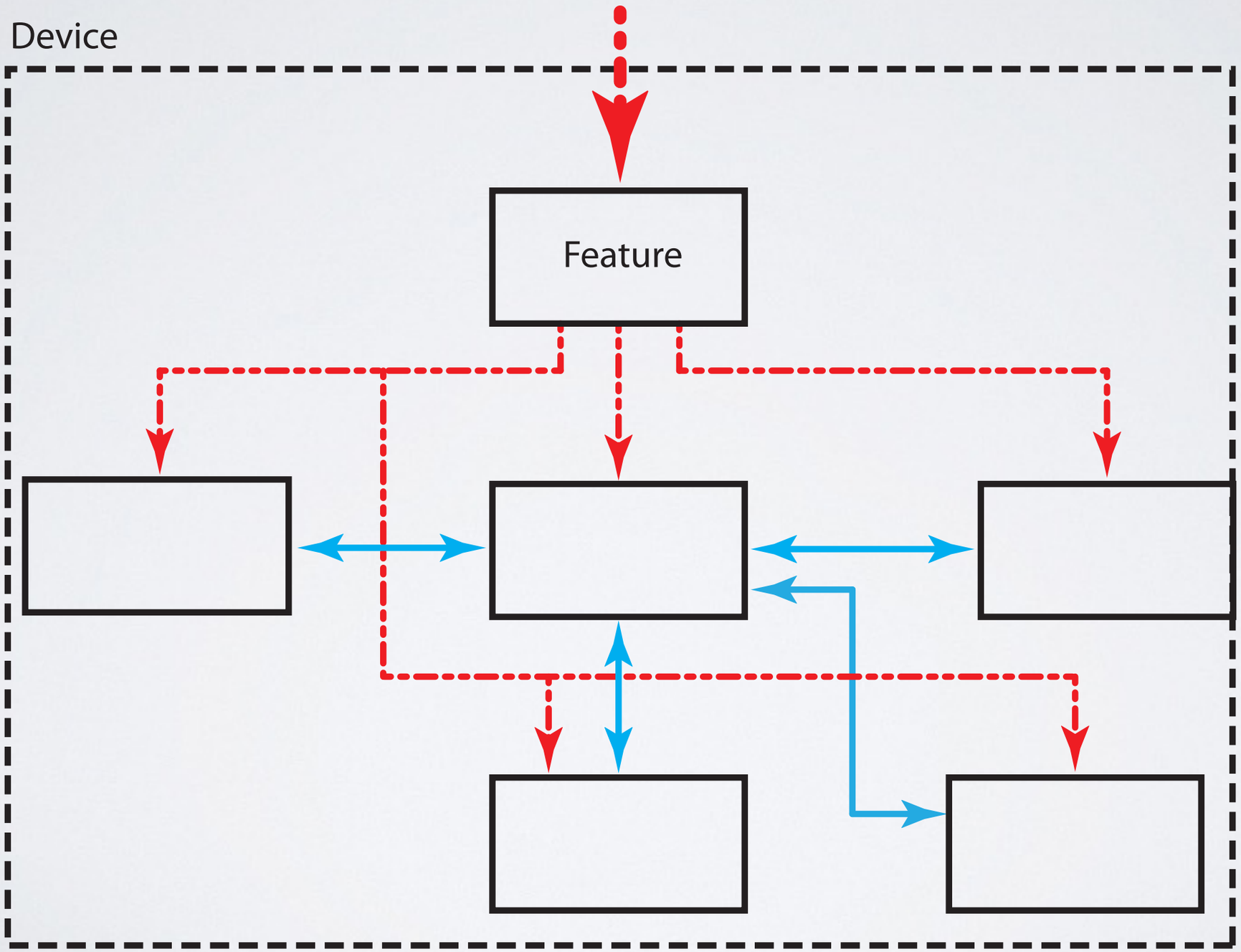
FEATURE CHARACTERISTICS



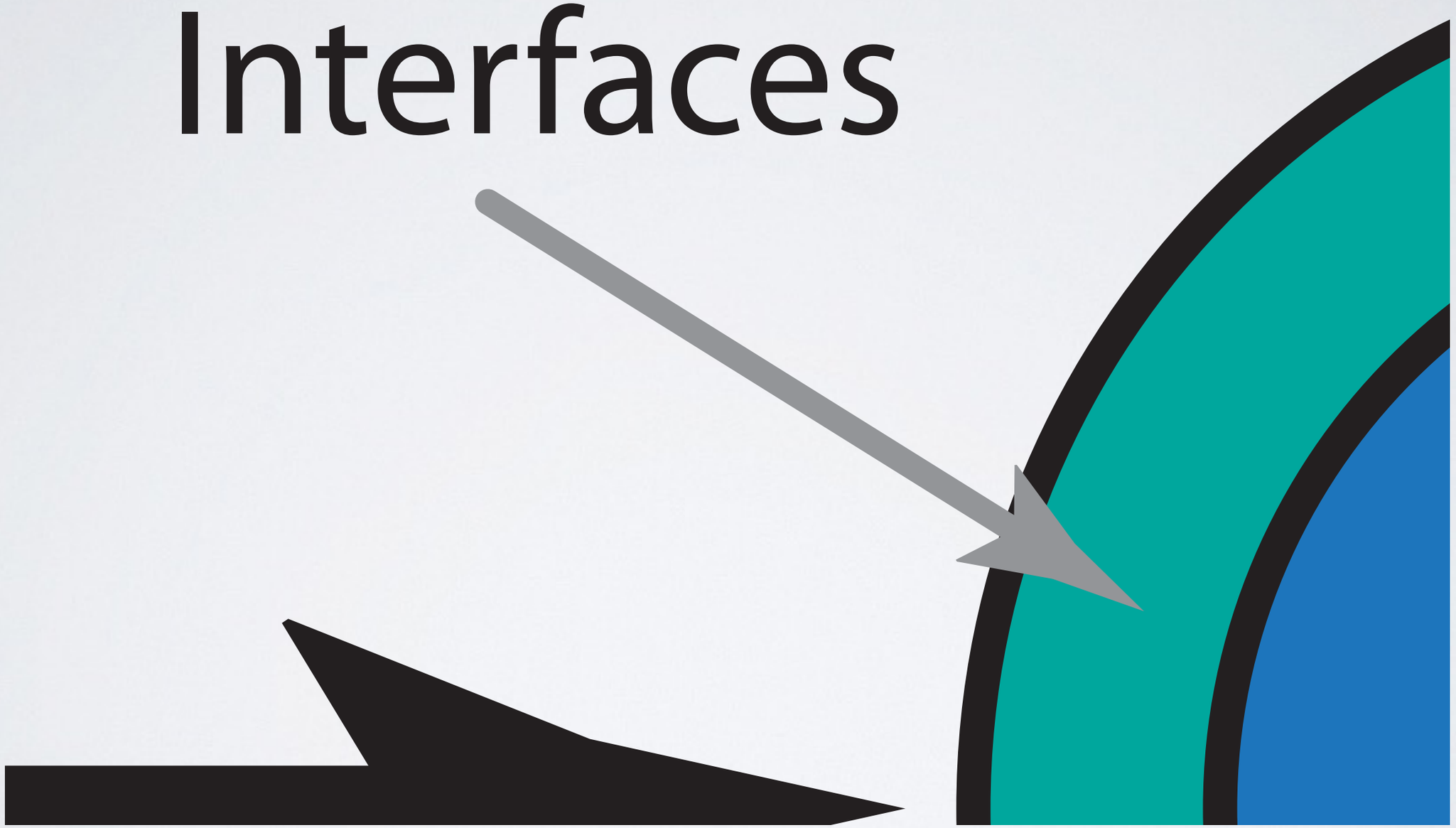
Behaviors

SEQUENCES

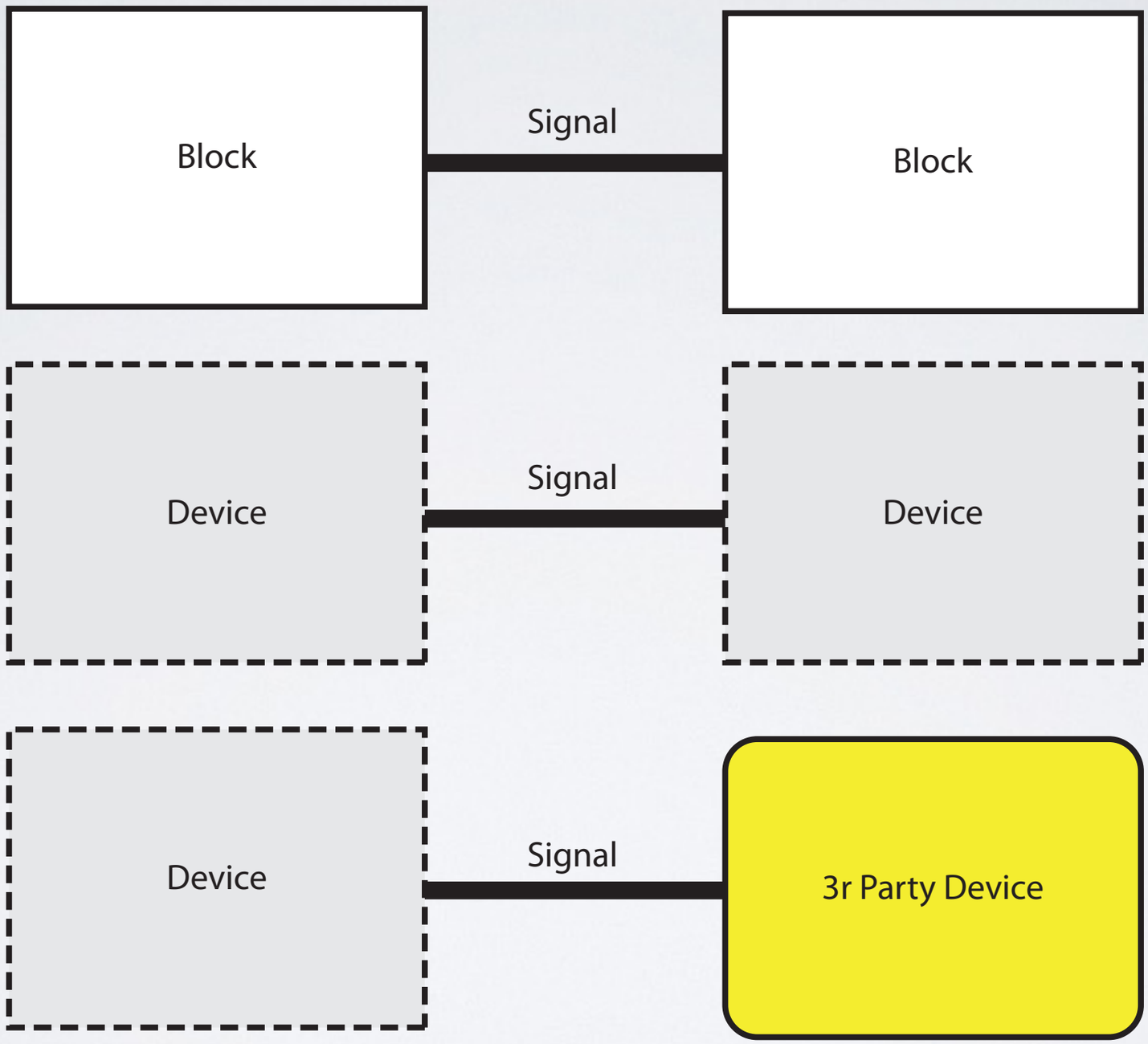
FLOWS



Interfaces



INTERFACE DEFINITION



CHARACTERISTICS

SEQUENCES

MESSAGES

CONSTRAINTS

- Manager / Client / Customer
- End User
- Development Budget
- Schedule

DELIVERABLES

- Feature List
- Flow Diagram
- Behavior Description
- Interface List

WHAT IS COMPLETE

- When all signals are terminated
- When all sequence steps are listed
- When there are no more characteristics that can be thought of

FREEZING THE PRODUCT DEFINITION

- Sets Scope
- Shared Language
- Controls Feature Creep