PROJECT SCOPING

The Engineer Accelerator
Malcolm Knapp
10/11/16

TASKS

■ Task

Work Day

Day Day Day Day Day Day Day Day Day Day Day Time

Work Day

Day Day Day Day Day Day Day Day Day Day Day Time
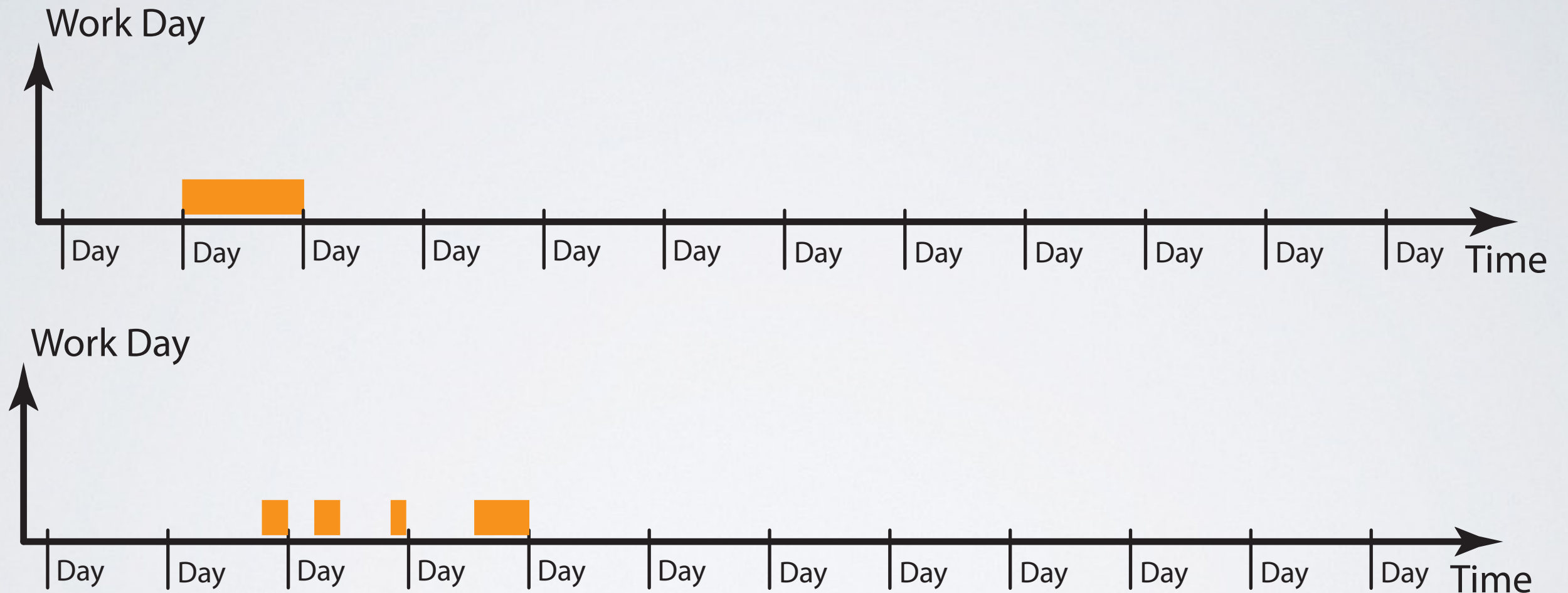
TASKS

TASK AND SUBTASKS

GROUPS

DEPENDENCIES

TASK ENUMERATION

PRODUCT DEFINITION

- Feature List

- Flow Diagram

- Behavior Description

- Interface List

ARCHITECTURE

- Major Components BOM

- Product Architecture

  - Major Signals Characteristics

  - Current Budget

  - Pinouts

  - Calculations

- Hardware Block Diagram

REALIZATION

- Board Design

  - Library

  - Schematic

  - Layout

  - BOM

- Detailed Design

  - Bypassing

  - Damage Protection

  - ESD and EMI Protection

  - Design for Test

- Cable Design

- Manufacturing Package

MANUFACTURE

- Procurement

- Kitting

- Fabrication

- Assembly

- Enclosure Assembly

- Cable Assembly

- System Assembly

BRING UP

- Set Up

- Base Line Existing Hardware

- Board Induction

- Smoke Test

- Debug Cycle

TESTING

- Test Setup

- Testing the Test

- Testing

- Analysis Development

- Analysis

UNSCALED TASKS VS SCALED TASKS

SCALED TASKS

FEATURES

BEHAVIORS

INTERFACES

PERCENTAGE TASKS

PROJECT MANAGEMENT

CONTINGENCY TIME

RESOURCES

- Units

- Amount Assigned

- Efficiency

WORK EQUATION

DURATION =
EFFORT / UNITS / EFFICIENCY /
AMOUNT ASSIGNED

RESOURCE OVERLOADING