# Organizational Structures

### Organizational Structures

- An organizational structure defines
  - Where responsibility and accountability are
  - How information flows
  - How conflicts are solved
- An appropriate organizational structure can simplify communication, keep stakeholders engaged, ensure decisions are taken where it is most appropriate (technically, managerially), and make work more efficient
- Two points of "view":
  - The organizational structure the project lives in
  - The organizational structure chosen for the project

#### Goals of the Unit

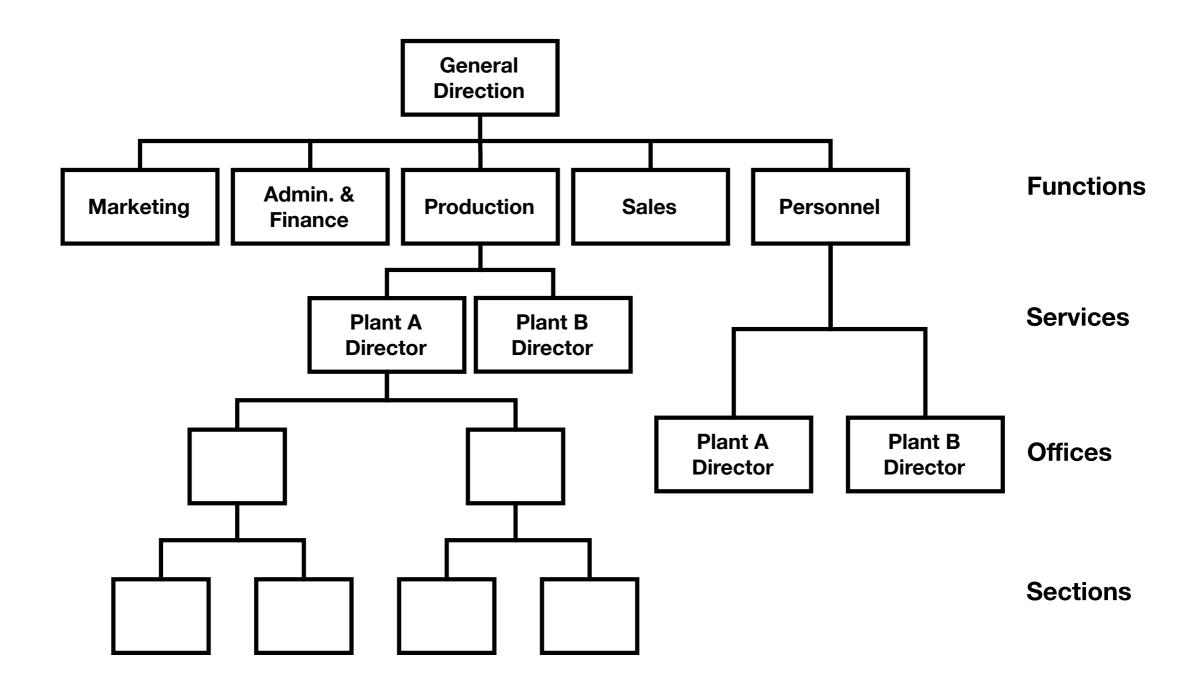
#### Goal of this unit:

- Learn about the most common organizational structures
- Understand how these structure can positively or negatively affect a project
- See the influence a project manager can exert, given a project organizational structure
- See the influence the organizational structure of the performing organization can exert in a project
- We will look at the following organizational structures:
  - Functional/Hierarchical
  - Matricial
  - -RACI
  - Agile

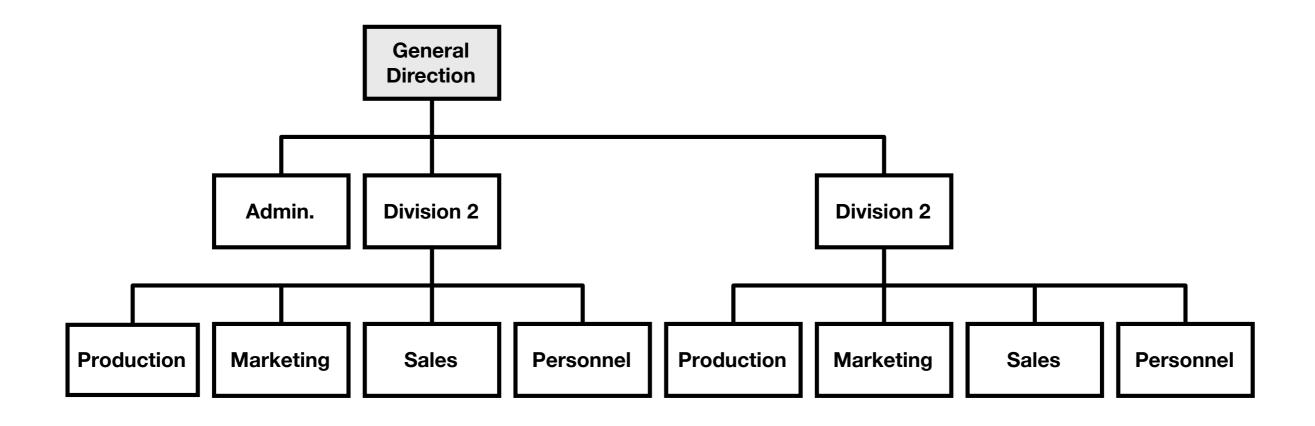
# Organizational Structures

An overview of the most common organization structures

#### Hierarchical



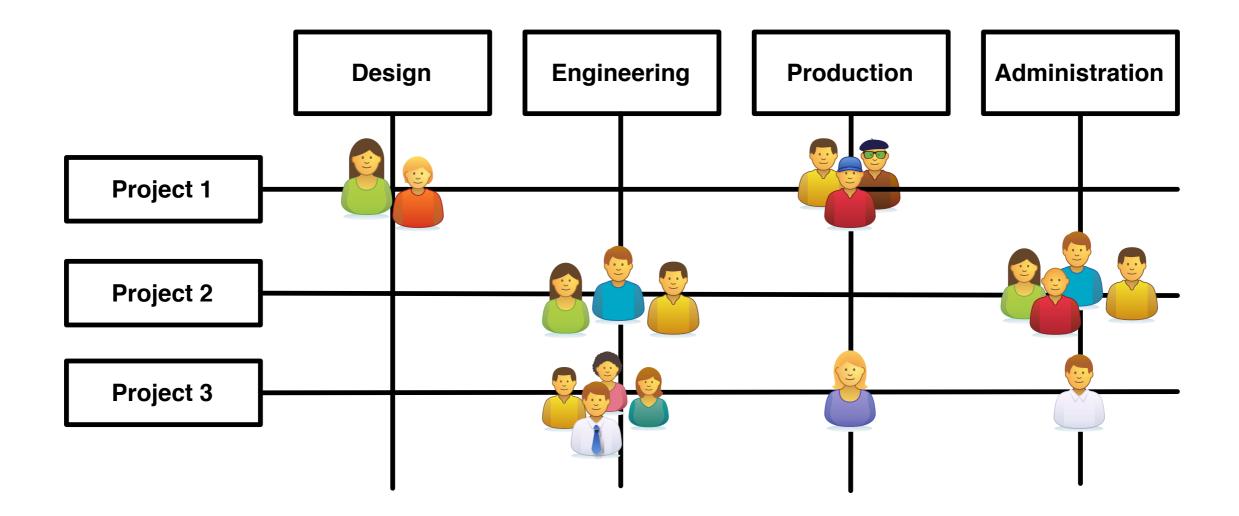
#### Divisional



#### Hierarchical and Divisional: Comments

- Each employee has a clear superior
- Work is organized according to functions/divisions
- Operational decisions are taken to the top of the hierarchy and propagate down to other functional areas
- Projects can:
  - Live in a "subtree" of the organizational structure
  - Temporarily borrow resources from different functional units (maybe part-time)
  - "Negotiate" project activities with the responsible of the organizational functions, which need to be involved to carry the activities out

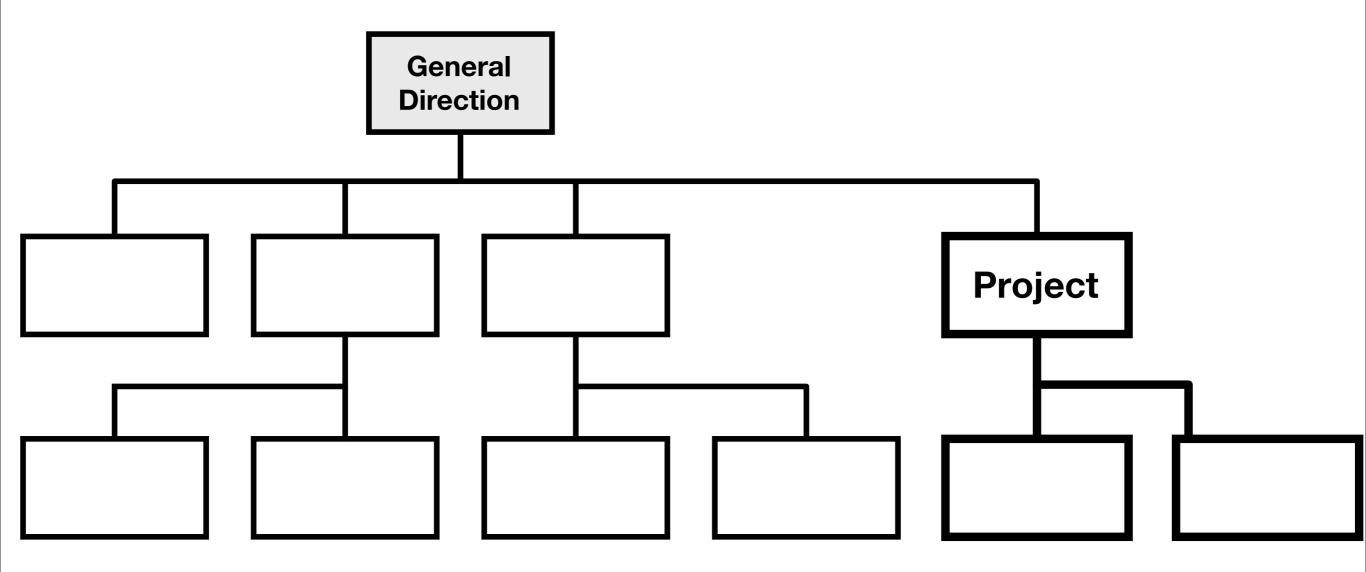
#### Matricial



#### Matricial: Comments

- Structural accommodation of projects: just add a line to the matrix!
- However:
  - Two bosses "syndrome"
- One point is where the decisions are taken:
  - Weak matrix: FUNCTIONAL AREA
  - Balanced matrix: SOMETHING IN BETWEEN
  - Strong matrix: PROJECT
- May or may not contain a PMO (Project Management Office) for sharing resources, monitoring and control

#### **Dedicated Team**



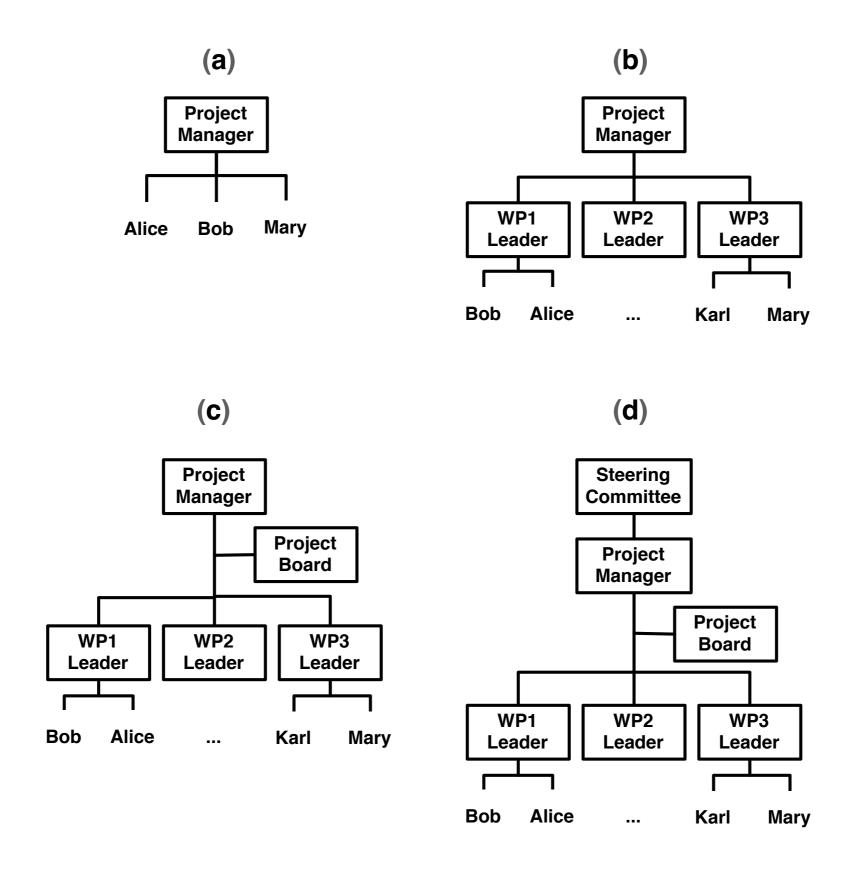
#### Dedicated Team: Comments

- Large or significant projects can be accommodated by creating a temporary structure in the organization and allocating the team
- Some of the issues include:
  - Groupthink (similar to the divisional structure)
  - Reallocating personnel when the project ends

# Project Organizational Structures

An overview of the most common <u>project</u> organizational structures

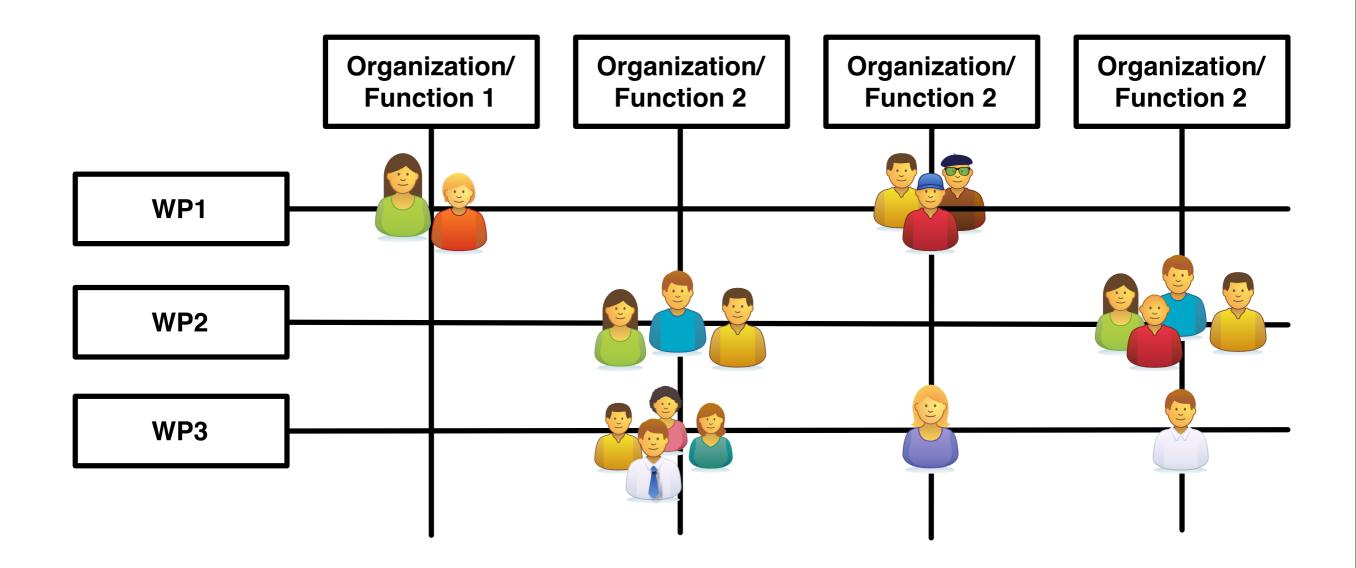
#### Hierarchical



#### Hierarchical Project Structure: Comments

- Each team member has a clear superior
- The structure often reflects the project organization (WPs)
- Operational decisions are taken to the top of the hierarchy and propagate down to other functional areas
- More complex projects can accommodate complexity by adding structure to the organization
- One risk is "management by committee", especially if roles are appointed according to seniority/politics/...

#### Matricial



#### Matricial Structure: Comments

- Good for multi-partner/multi-divisional projects: each team member belongs to an organization and is assigned to a WP
- For very complex or projects with dedicated teams, the columns can represent specific project areas/functions/ geographically distributed offices
- Decision taking is one issue (see RACI)

#### **RACI** Matrix

#### Sheet1

WORK PACKAGE	P1	P2	Р3	P4	<b>P</b> 5	P6	P7	P8
WP0. Project Management	AR	С	С	С	С	С	С	С
WP1. Case Study Requirements	С	С	С	AR	R	С	С	R
WP2. Network Architecture Definition		AR			С		С	С
WP3. Software Development	AR			R	С	R		С
WP4. Assessment and Evaluation	С	С	R		AR	R	R	R
WP5. Sustainability & Exploitation	R	R	AR	R	R	R	R	R
WP6. Dissemination	R	R	R	R	R	AR	R	R

- Responsible: people expected to actively participate in the activity and contribute to the best of their abilities
- Accountable: person who is ultimately responsible for the results
- Consulted: people who must be consulted before a final decision is made
- **Informed**: people affected by the activity/decision; informed, they do not participate in the effort

#### **RACI Matrix: Comments**

- Clear allocation of roles for each project task/work package
- It specifies both decision and information flows
- More useful for larger projects involving different partners

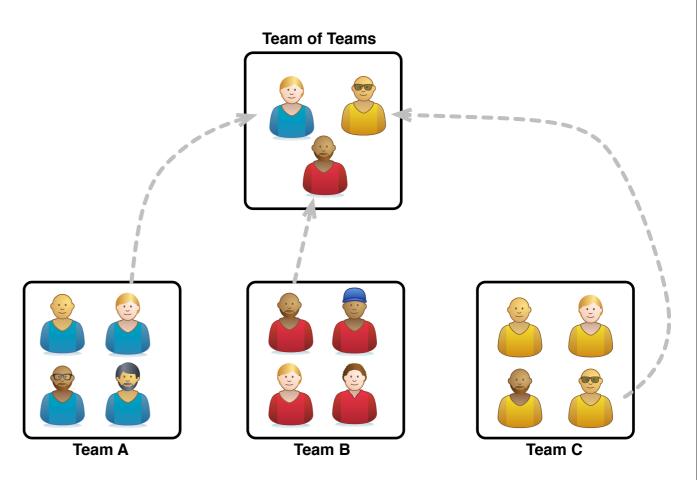
## Agile Teams

- Agile development prefers small and dedicated teams of collaborating people, with interchangeable roles (team over individuals)
- In a typical situation: 5-9 people + shared ownership (of results and issues) + rotation of roles and functions
- Roles in SCRUM:
  - Scrum master: measures project progress, solves issues, and "shields" the team from external influences
  - Customer: product owner (requirements, removes impediments)
  - Team: self-organizing and responsible of carrying the work out
- Pair programming: driver + navigator

## Agile Teams

- One critique is that agile teams are too small for large projects
- In these situations a "team of teams" can be used
- The team of teams concept can be extended to arbitrarily complex structures

#### **Team of Teams**



### Conflict Resolution: Example

- Together with the organizational structure, it might be useful to describe how issues are reported and information flows
- Consider the following:
  - Formality and means for issue reporting
  - Who/how conflicts are solved (example: the PM decides; the Steering Committee decides; consensus/majority voting, ...)
  - How decisions are tracked (i.e., is a formal record kept?)

#### Some hints:

- Favour early and open issue reporting
- Escalation: define structures in which issues are solved at the lowest possible level in the hierarchy
- Make sure the information about the decisions taken flows and involves all relevant actors