

Project of a Mobile Communications' Base Station in a City near the Spanish Border

16th May 2016

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Outline

- Introduction.
- Objectives.
- Stakeholders.
- Scope and Work Breakdown Structure (WBS).
- Scheduling.
- Resources allocation.
- Communication Plan.
- Risk Analysis.
- Project Closing.
- Conclusion.

Introduction

- Plan a Base Station Implementation from the Project Manager's point of view.
- Project Management Methodologies.

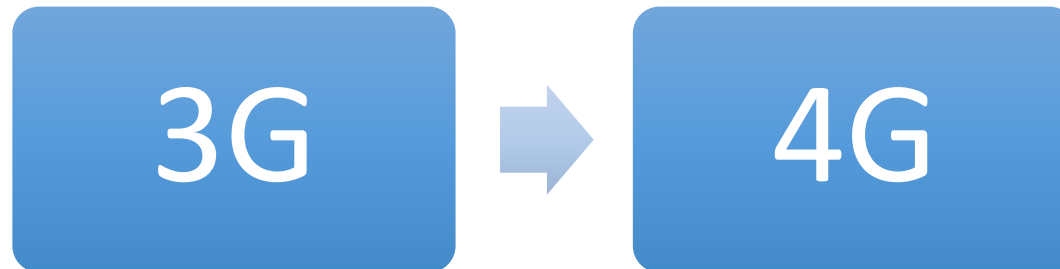
Objectives (1)

Project Objective – Scope:

The planning, implementation and post monitoring of the Base Station near the Spanish border.

Objectives (2)

- Project Charter:
 - Formal document authorizing the project;
 - Stakeholders **necessities** and **expectations**;
 - Business case: **Technological Advance**;



- Project as a part of the Operator's **Strategical Plan**.

Stakeholders (1)

Internal:

- Project Leader;
- Management Department;
- Radio Eng. Department;
- Regulation Department;
- Law Department;
- Marketing Department;
- Buying Department.

Stakeholders (2)

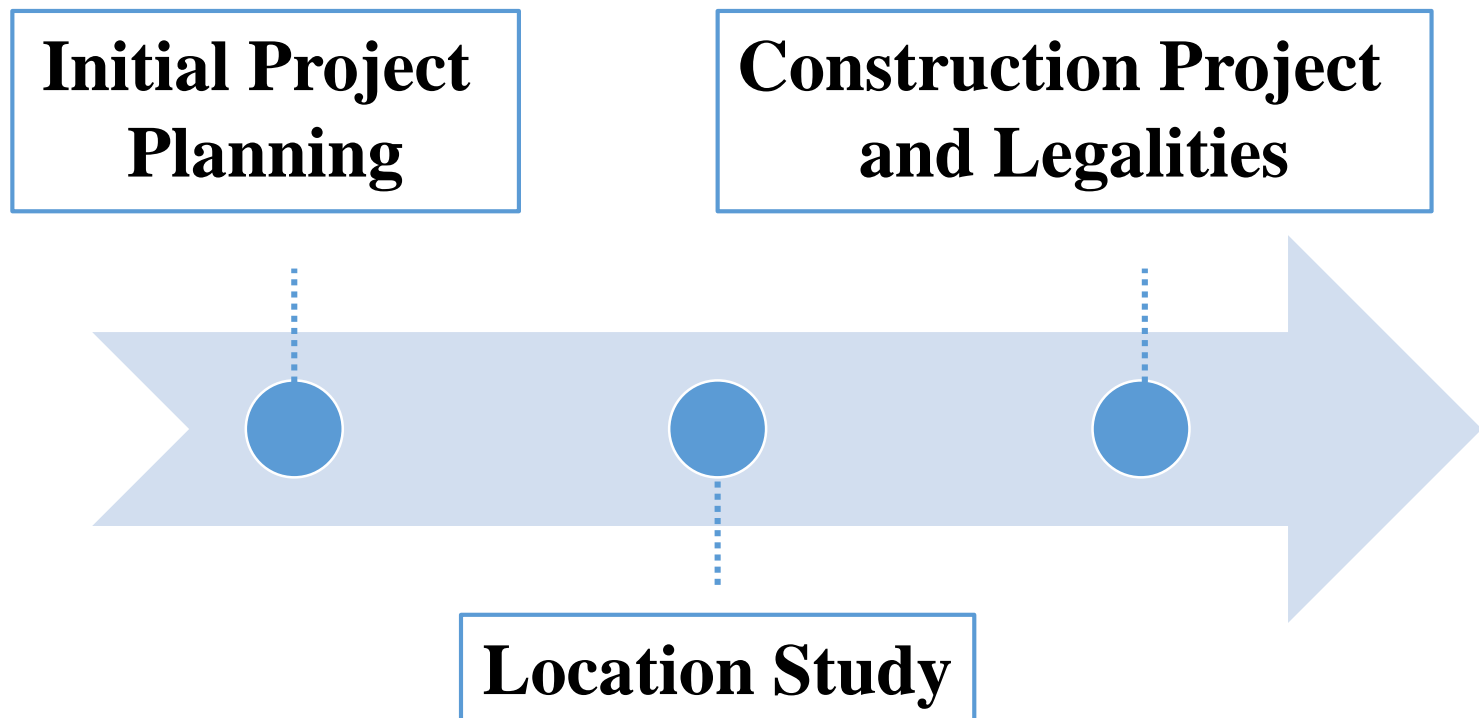
- External:
 - Contracted Entities:
 - Constructor;
 - Electric Energy Supplier;
 - Owner;
 - Negotiator;
 - Fixed Link Supplier;
 - Equipment Supplier.
 - Non-Contracted Entities:
 - ANACOM;
 - Municipality;
 - Spanish Operators.

Scope and WBS (1)

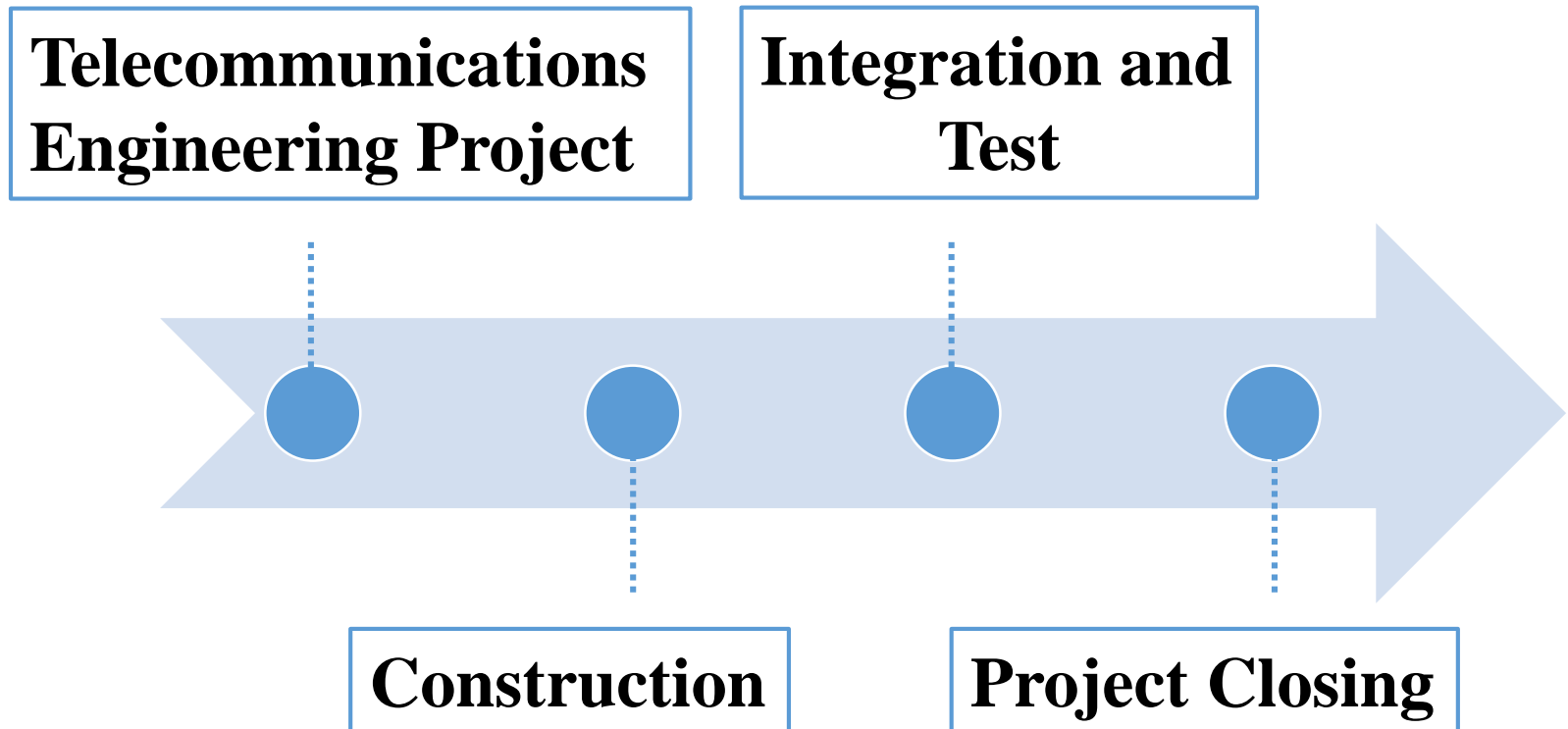
- **Scope Requirements:**
 - Covered **range**;
 - **Bandwidth**;
 - **Bitrate**;
 - Generation **upgrade**;
 - **ANACOM** and **ITU-T** norms and recommendations;
 - **Legal** requirements;
 - Keep network **unchanged**;
 - Conformance with **Spanish** operator's **frequencies**.

Scope and WBS (2)

- **Project of a Mobile Communications' Base Station in a City near the Spanish Border - WBS**



Scope and WBS (3)



Scheduling (1)

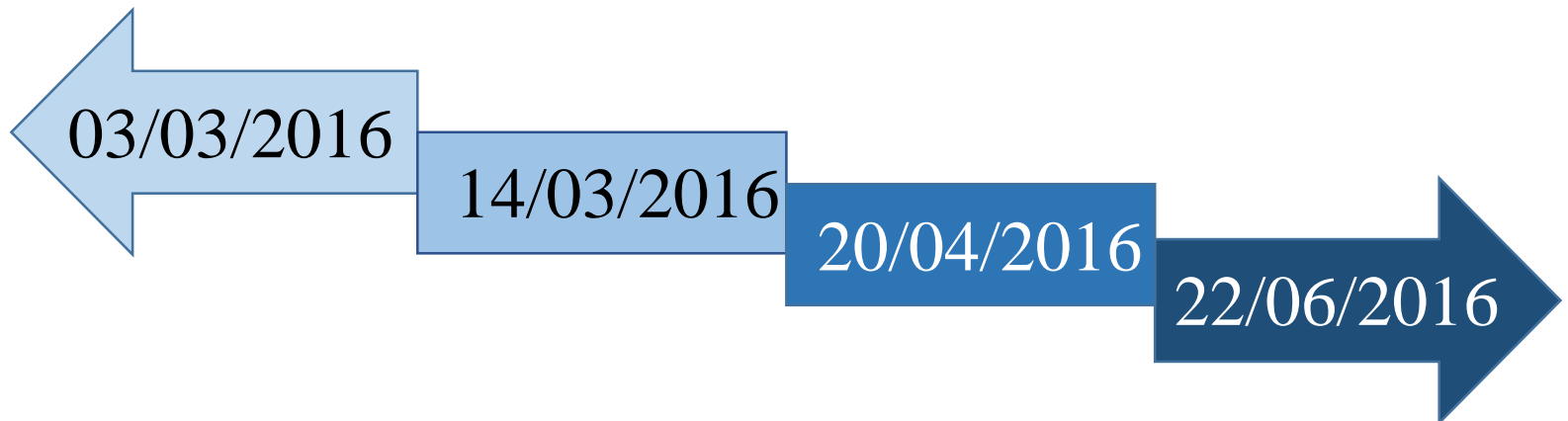
- Important Diagrams

- Gantt

- PERT



- Important Dates



Scheduling (2)

- Our team



[Fonte: Socialbox, 2015]



Brainstorming



Good
Communication

Scheduling (3)

- What was our focus?

Setting Goals

Stakeholders

8 Days

Planning

Site visit

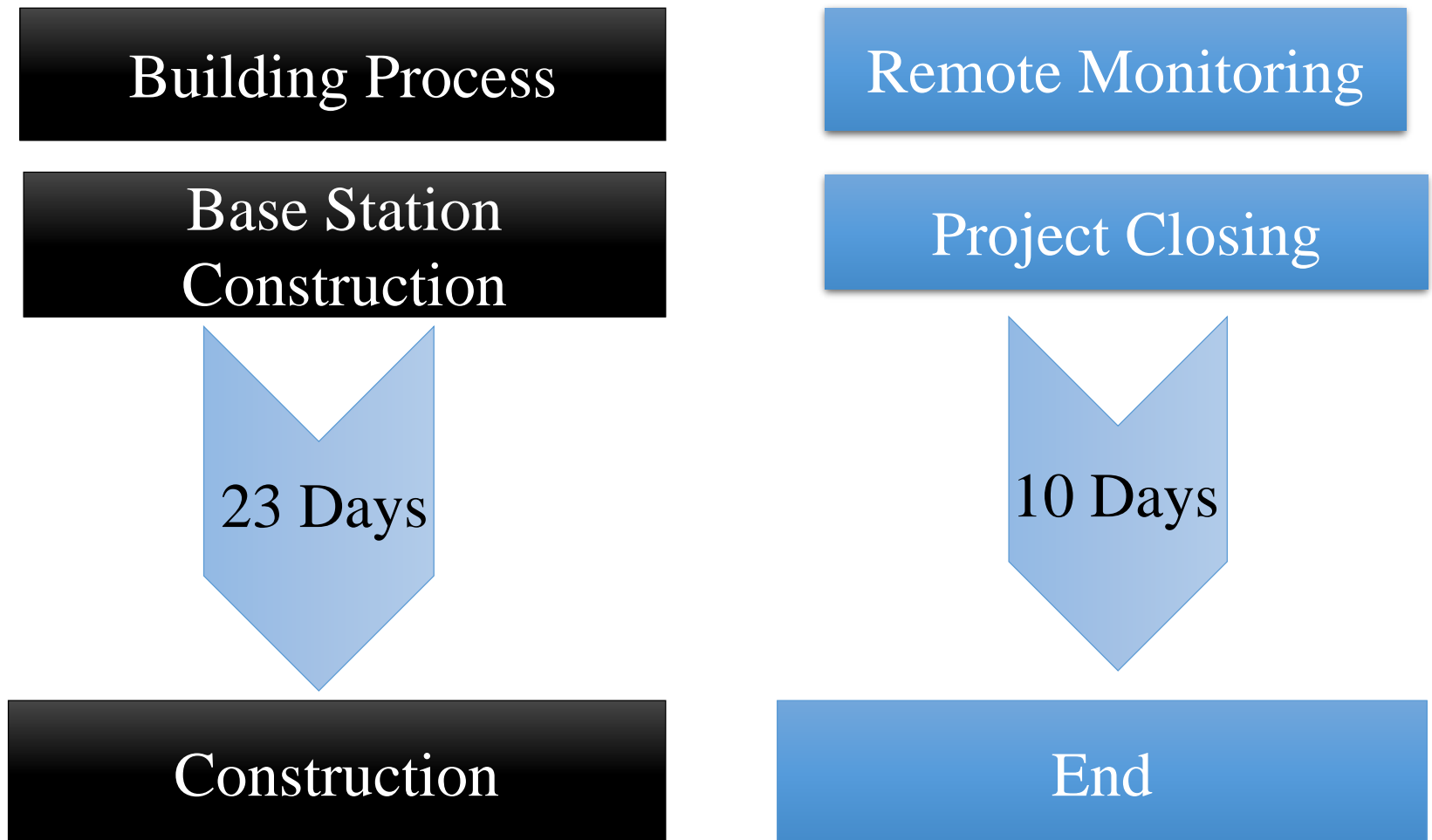
Negotiations

7 Days

Study














Scheduling (4)

- What was our focus?



Resources Allocation (1)

- Internal Stakeholders

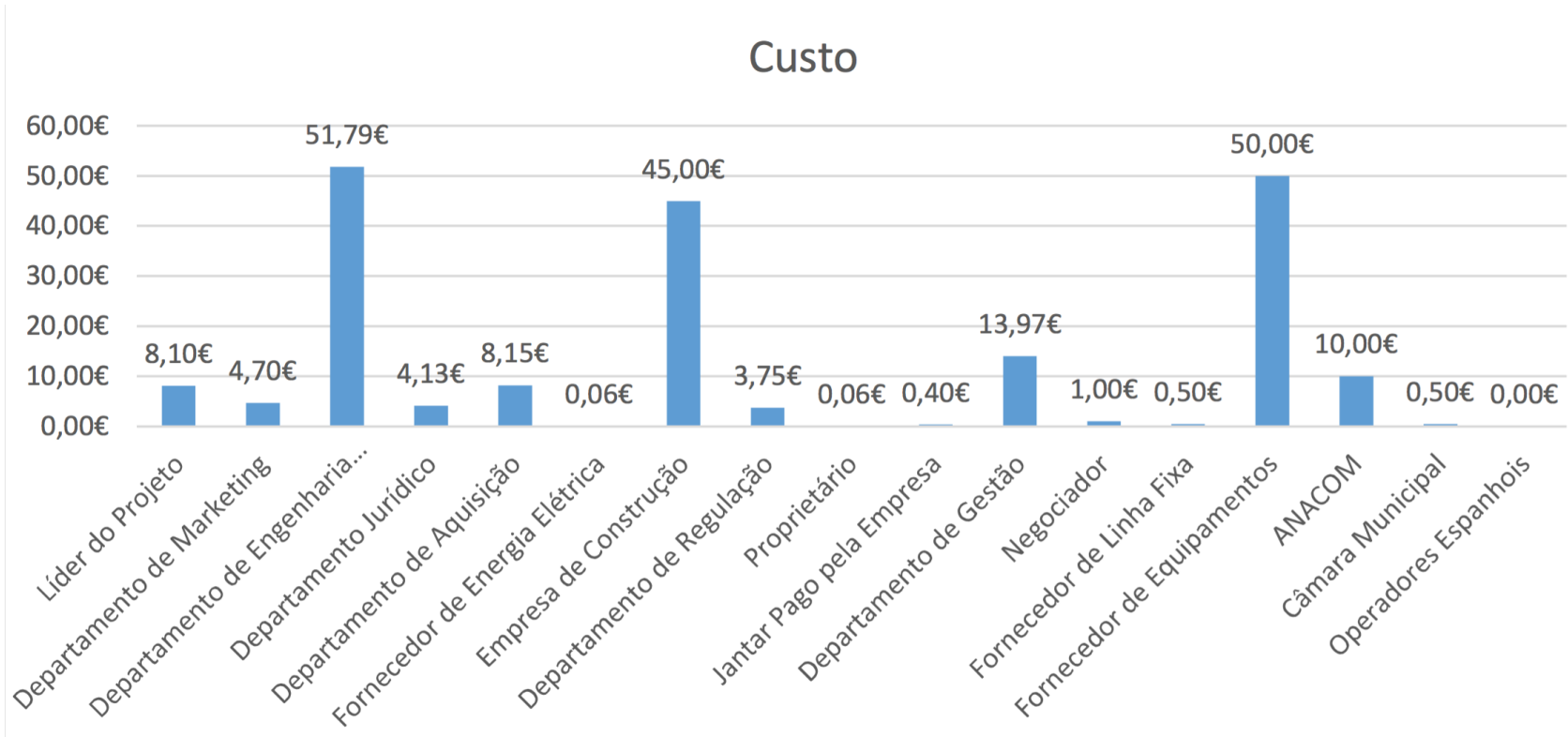
Stakeholder	Workers	Cost
Leader		100€/h
Management D.	 	75€/h
Radio D.	   	75€/h
Law D.		75€/h
Regulation D.		50€/h
Buying D.	 	50€/h
Marketing D.	 	50€/h

- External Stakeholders

- Total estimated costs: € 43 388,40

Resources Allocation (2)

Cash Flow Table (in thousands)

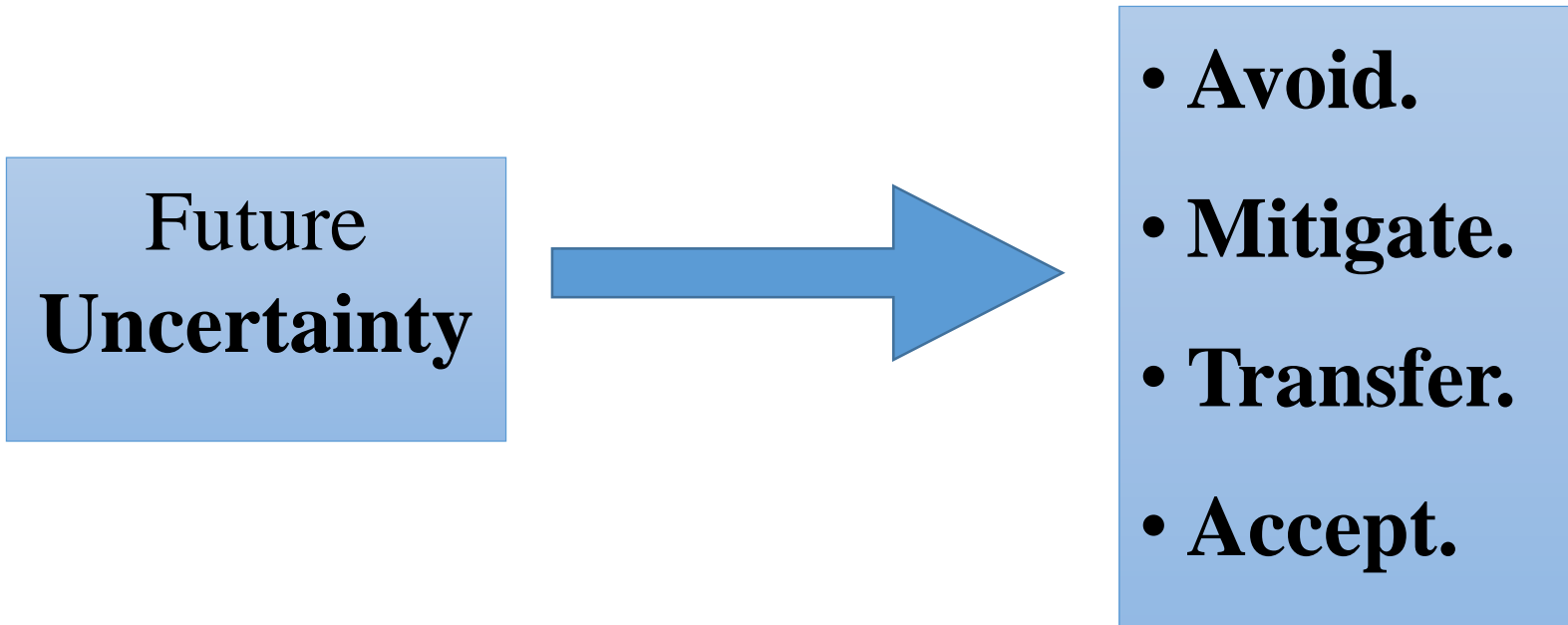


Total Cost: € 202 106,92

Communication Plan

- Internal Communication Plan
 - **Daily** communications:
 - Personal Calls;
 - Email.
 - **Crucial** communications:
 - Reports;
 - Official meetings.
- External Communication Plan
 - **Formal** communications;
 - Scheduled **when necessary** and in agreement with previous WBS definition.

Risk Analysis



Risk examples:

- Answer/ Construction/ Licensing **Delays**;
- Price **Variations**;
- Engineering **Errors**.

Project Closing

- Continuous Monitoring.
- **Periodic Visits.**
- Contract **Closing.**
- Performance evaluation:
 - Total **Cost**: € 202 106,92.
 - **Duration**: 80 days.
- **Knowledge Management.**

Conclusion

- Project managers inside view.
- Project Management (PM) Typical Procedures.
- Critical Analysis on the various PM strategies.