



Intellectual Output #1 – Course Outline

Talking points



The objective of the project



Guiding working principles



Proposed outline



Division of tasks

(1) Objective of the project

A **conceptual understanding** of the analytical process

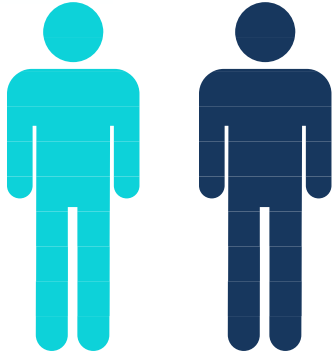
- Types of data and techniques required to express and analyze different aspects of the social system;
- Methodologies that govern recent innovations, so as to cater towards the needs of the stakeholders involved;
- Applicability and (limited) use of innovative instruments and technologies;

....to produce **ABSTRACTION**

Target Group

addressed by the project

**(Future) security &
LEA practitioners**



(Future) policy makers, applied & academic social scientists



L-Università
ta' Malta

Why? Do social sciences solve social problems?

The target group:

- works with Big Data
- carries great responsibility in ensuring a sustainable societal development
- technology changes -> how we understand the world and how we perform science

Theseus ...

(2) Guiding principles



Is **NOT** an **algorithm centered** course and it does **NOT** target tech-savvy students.



Should address some of the issues that are dealt with in everyday professional routines, for

- (1) a better understanding of how big data fits their organization and
- (2) how they can enhance their performance through big data analysis.

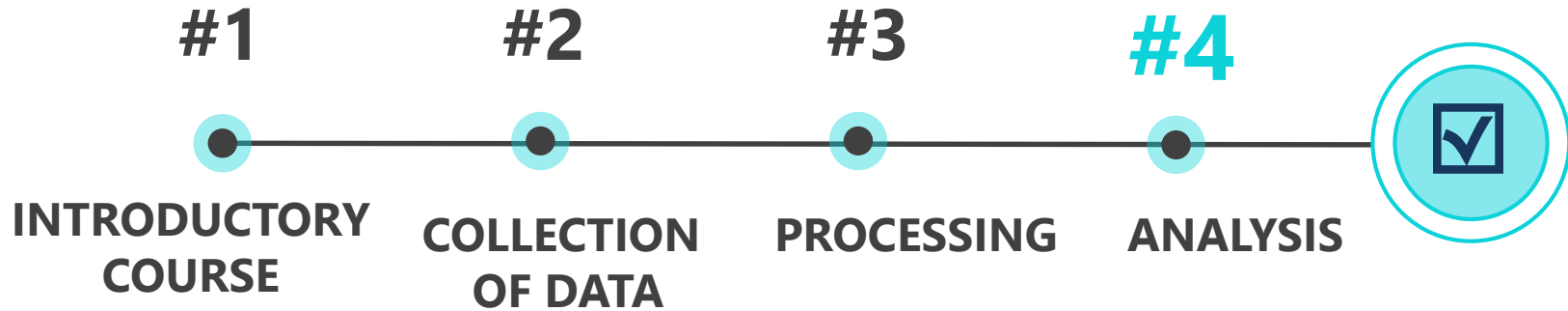


Should provide enough theoretical basis, but **focus** on applied discussions and exercises.



Main constraint: **TIME**.

(3) Proposed outline



(3) Proposed outline



INTRO

Objectives:

- Define the conceptual framework
- Define data & organizational needs
 - Enable data-analytic thinking

Definition of concepts
Definition of analytical process
Types of data
What data cannot do

How does data fit into **my** organization
?

(3) Proposed outline

Objective:

-define and explain the legal framework information policies and data security policies related to big data analysis



Legal provisions & technical constraints
Privacy, ethics and mining about people
Study cases

Proactive vs. Reactive
Bulk data vs. Targeted data

(3) Proposed outline

Objective:

- define and explain the main errors in processing large amounts of data

Introduction in
Statistics & Critical Thinking



PROCESSING

How do we approach data?
Structured vs. Unstructured data

(3) Proposed outline

Objective:

- explain and exemplify the use and relevance of big data analytics on real-world problems

Ways of approaching data
(network analysis, clustering,
recommendation systems,
text analysis)

Structured vs. Unstructured data
network analysis - text analysis

ANALYSIS

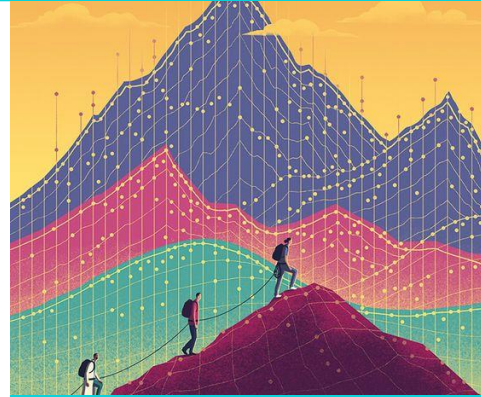


Key objectives & Competences
Content (detailed)
Teaching methods
Time allotted

- Objectives
- Structure
- Content
- Summary
- Bibliography
- Application

Course Outline

Evaluation &
Performance indicators



(4)Tasks Division



L-Università
ta' Malta



 **NTNU**
Kunnskap for en bedre verden

Thank you!

This presentation was realized with the EEA Financial Mechanism 2014 – 2021 financial support. Its content does not reflect the official opinion of the Programme Operator, the National Contact Point and the Financial Mechanism Office. Responsibility for the information and views expressed therein lies entirely with the author(s).