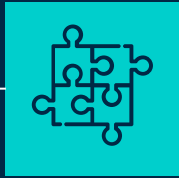




PROCESS ANALYSIS TOOLS FOR PUBLIC UTILITY

Martina Burlando | SFSCon 2023

TABLE OF CONTENTS



01

PROCESS MINING IN SHORT

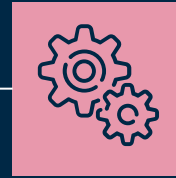
Brief introduction
into process mining
and tools



02

PUBLIC DATA COLLECTION

How data is
collected and
managed



03

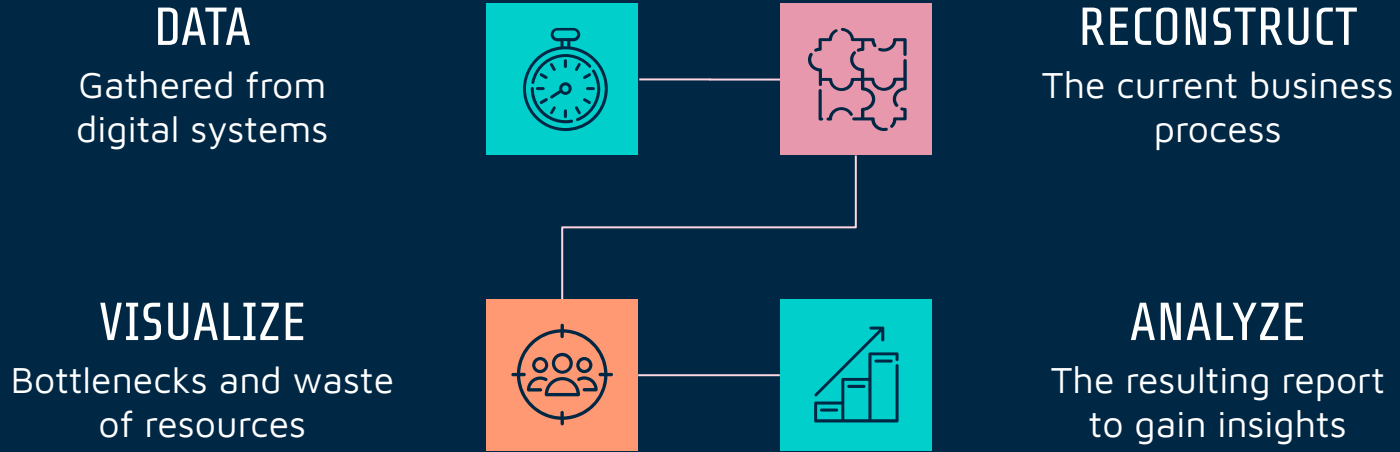
PROCESSING FOR GOOD

How collected data
could become
meaningful

PROCESS MINING IN SHORT

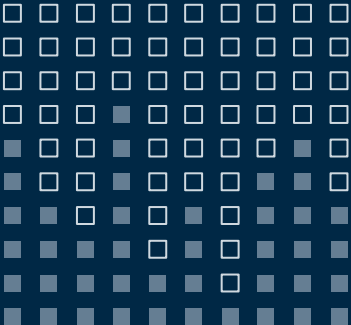
01

PROCESS MINING IN SHORT



PROCESS MINING IN SHORT

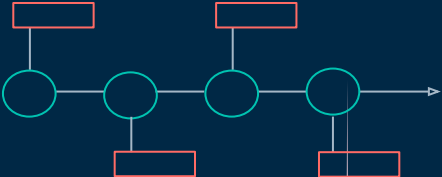
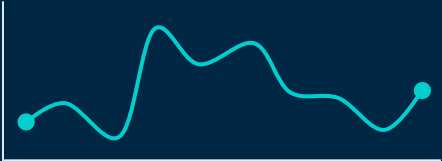
Large Dataset



Process mining tool



Flow charts and Diagrams



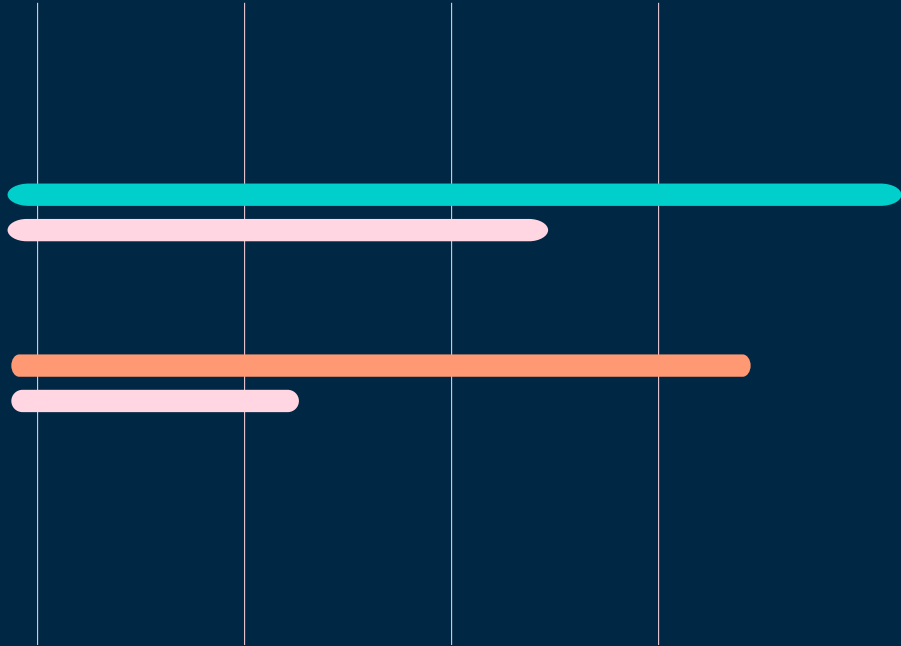
OPEN SOURCE TOOLS

PMTK

By Fraunhofer Institute
of Applied IT

BUPAR

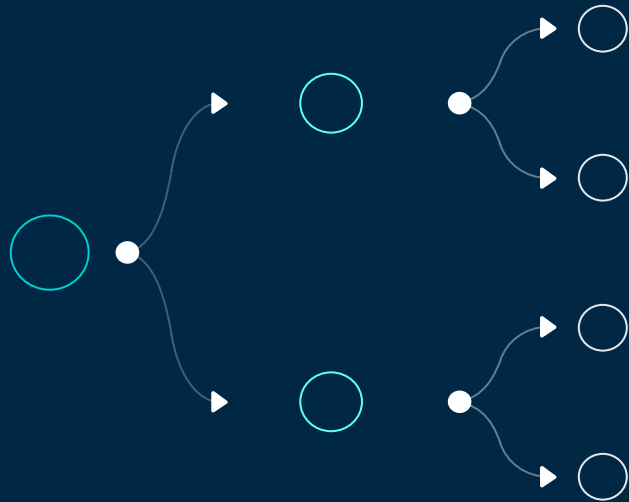
By a team of volunteer
researchers and interns



PUBLIC DATA COLLECTION

02

PUBLIC DATA COLLECTION



Huge amounts of data are collected every day by the public infrastructure:

- **Medical** record from hospitals and clinics
- **Criminal** record from police stations and prisons
- **Social** indicators from municipalities and research

PUBLIC DATA COLLECTION



Datasets

- Medical:
<https://www.salute.gov.it/portale/home.html>
- Criminal:
<https://www.interno.gov.it/it/dati-e-statistiche>
- Social:
<https://www.istat.it/it/files/2023/04/indicatore-anno-2022.pdf>

PROCESSING FOR GOOD

03

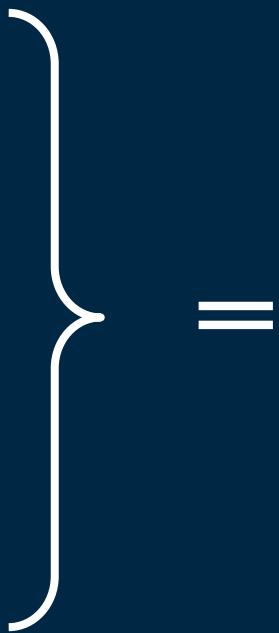
PROCESSING FOR GOOD



Free, open source tools



Already available data



Collective control



Shared visibility



Identifiable
bottlenecks



Relatedness of
events



HOW WOULD YOU USE THESE TOOLS?

Do you have any questions?

Come talk to me after this!

Or contact me through this link

