



**United Nations**

**DESA  
Statistics**



**eurostat**

## **Session 7: Trade Data Tools for IMTS**



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UNSD and Eurostat**



## Background

- Tools for IMTS compilation
  - Eurotrace (Eurostat) and PC Trade (Statistics New Zealand)
- Long running capacity building and a very successful one
  - Eurotrace – the Caribbean, Africa, Southeast Asia, Central Asia, Southern Europe not only **countries** but also **organizations**
  - PC Trace – the Pacific
- Main challenges – ending of support

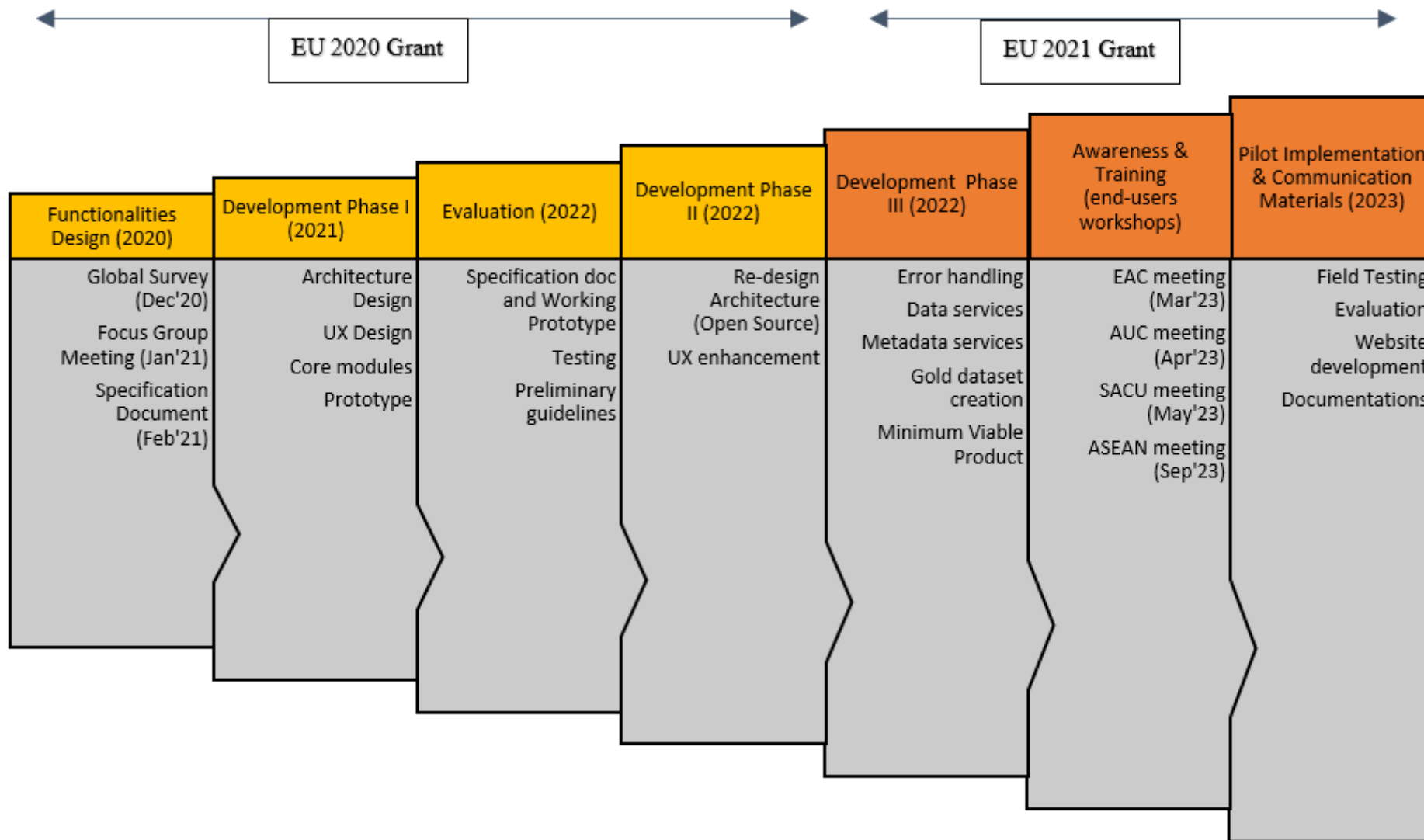


## Trade Data Tools - TDT

- Joint Eurostat/UNSD Project
- Objectives to
  - Assess current tools: Eurotrace and PC Trade
  - Undertake development of TDT and its pilot testing
  - Define its governance structure including funding mechanism and communication strategy
- Multiyear project (2020-2023 and beyond)

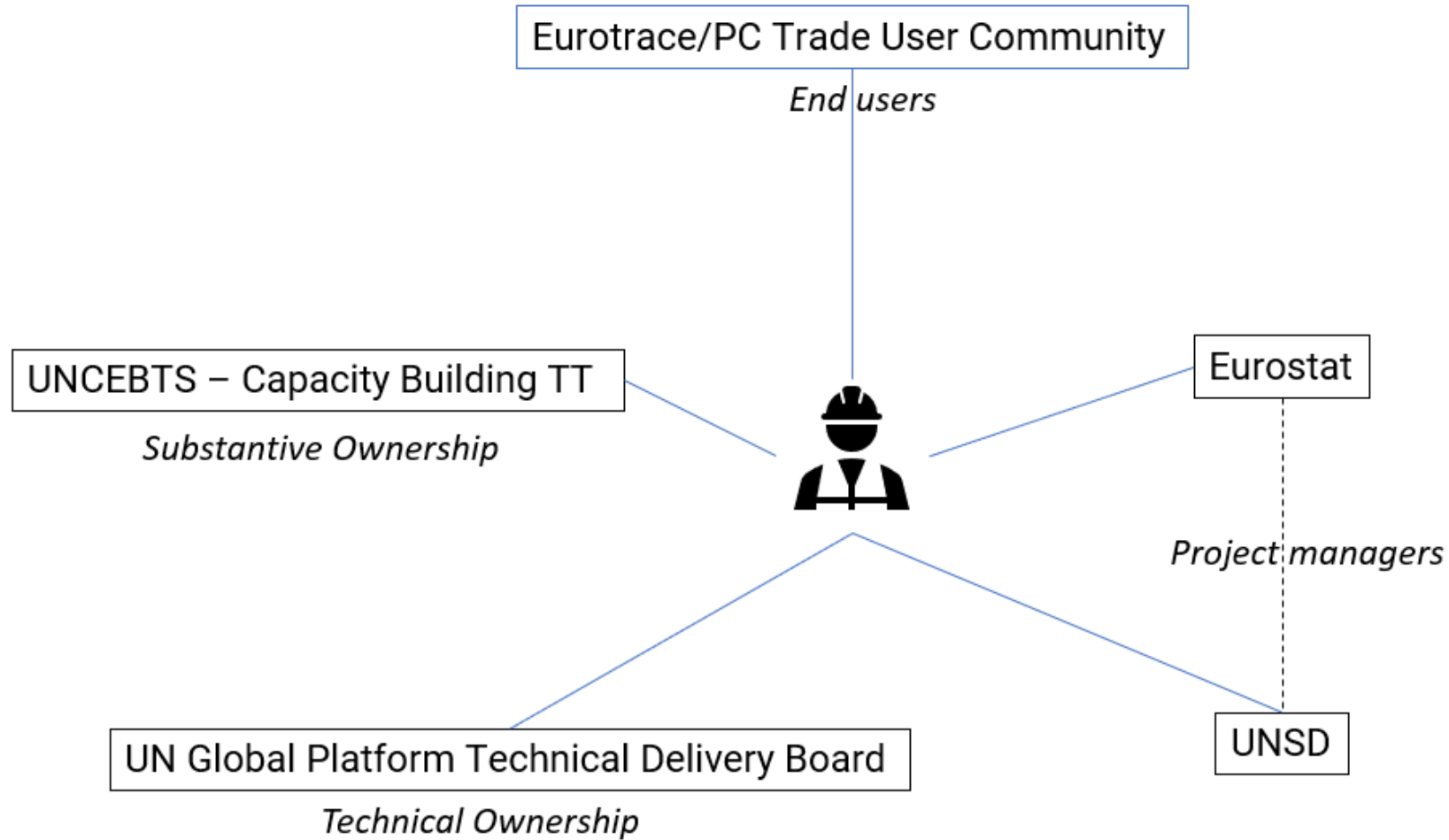


Illustration 1. The overview of the project deliveries from 2020 and 2023





# Project Stakeholders





# Governance

UN Committee of Experts on Business and Trade Statistics

UN Committee of Experts on Big Data and Data Science for Official Statistics

Capacity Building & Trade Task Team

UN Global Platform

Trade Data Tools

Working Groups:

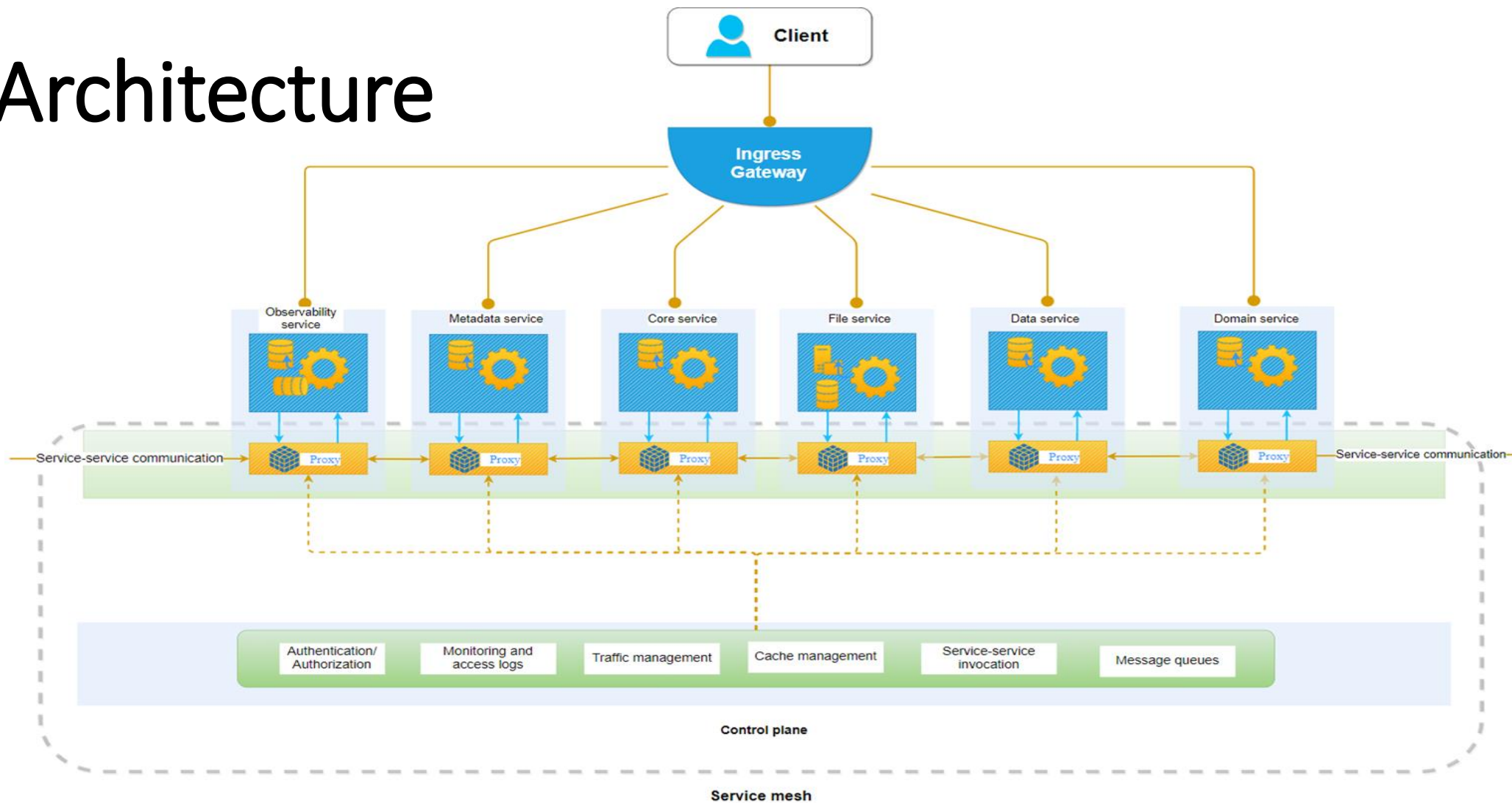
Substantive

Technical

Financial



# IT Architecture





**Trade Data Tool** About

- Files Service
- Metadata Service
- Domain Service
- Core Service
- Data Service

### View Metadata Schema

[← Back to index](#)

**Metadata Name:**  **Type:**   
**Metadata Start Date:**  **Metadata End Date:**

#### List of Dimension

Name	Data Type	Size	Primary Key	Allow Null	Unique Key	Start Date	End Date	Action
Continent	Text	100	No	No	No	2021-07-28		<a href="#">View</a>
ISDCCode	Integer	11	No	No	No	2021-07-28		<a href="#">View</a>
CountryName	Text	100	No	No	No	2021-07-28		<a href="#">View</a>
CountryCode	Integer	11	No	No	Yes	2021-07-28		<a href="#">View</a>

TDT.Web About

localhost:44364/fileservice

### Trade Data Tool

- Dashboard
- Files Service
- Metadata Service
- Dataset Service
- Core Service

#### Bucket List

[+ Create bucket](#) [Purge Files](#)

Bucket Name	Creation Date
<a href="#">+ mybucket</a>	2022-08-30
<a href="#">+ pranavbkt</a>	2022-08-30
<a href="#">+ vinodbucket</a>	2022-10-13

< 1 >

TDT.Web About

localhost:44364/core/Batch/ProcessingTimeline/3/1

### Trade Data Tool

- Dashboard
- Files Service
- Metadata Service
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#### Batch Id : 3 - Completed

Batch Status - Completed [Fix Error](#)

- Login**
  - Login to rule engine and setting up the prerequisite ✓
- ETL Ruleset Execution**
  - execution of (paragraph\_1662479265226\_436631105) of Trigin\_ETL ✓
  - execution of (paragraph\_1662479289958\_715796905) of Trigin\_ETL ✓
  - execution of (paragraph\_1662479569279\_688513927) of Trigin\_ETL ✓
- System validation Execution**
  - System validation of metadata check rule Total 3 metadata mismatch found ✓
  - System validation of null dimension check rule Total 2 null found in required dimension ✓
  - System validation of identifying duplicate records rule Total 6 repetitive records found based on coded keys ✓
- Validation Ruleset Execution**
  - execution of (paragraph\_1662479265226\_436631105) of Trigin\_validation ✓
  - execution of (paragraph\_1662479289958\_715796905) of Trigin\_validation ✓

Done

TDT.Web About

localhost:44364/fileservice/filelist/pranavbkt

### Trade Data Tool

- Dashboard
- Files Service
- Metadata Service
- Dataset Service

#### List of files

[+ Add File](#) [Remove Bucket](#) [Refresh Bucket](#)

pranavbkt

Show  entries Search:

Name	Extension	Size	Bucket	Action
<a href="#">City1.txt</a>	txt	0.02KB	pranavbkt	<a href="#">Download</a> <a href="#">Delete</a> <a href="#">Overwrite</a>
<a href="#">State.txt</a>	txt	0.03KB	pranavbkt	<a href="#">Download</a> <a href="#">Delete</a> <a href="#">Overwrite</a>
<a href="#">Trigin.txt</a>	txt	0.09KB	pranavbkt	<a href="#">Download</a> <a href="#">Delete</a> <a href="#">Overwrite</a>
<a href="#">Trigin2.txt</a>	txt	0.13KB	pranavbkt	<a href="#">Download</a> <a href="#">Delete</a> <a href="#">Overwrite</a>
<a href="#">Trigin3.txt</a>	txt	0.18KB	pranavbkt	<a href="#">Download</a> <a href="#">Delete</a> <a href="#">Overwrite</a>
<a href="#">Trigin4.txt</a>	txt	0.20KB	pranavbkt	<a href="#">Download</a> <a href="#">Delete</a> <a href="#">Overwrite</a>

Showing 1 to 6 of 6 entries Previous 1 Next





## Recent updates and immediate plan

- In March 2023, the minimum viable product (MVP)
- Outreach :
  - East African Community (EAC) in-person workshop in March 2023
  - African Union Commission (AUC) in-person Specialized Technical Group in April 2023
  - Southern African Customs Union (SACU) in-person workshop in May 2023
  - Association of Southeast Asian Nations (ASEAN) virtual Expert Group in Q4 2023
- June – September 2023 : Consultancy for
  - Training and pilot testing in Eswatini
  - Users manual
  - Communication and outreach
- October – December 2023 : Improvement of tools
- 2024 : 2<sup>nd</sup> pilot testing in larger country



## Summary

- Recap of timeline
  - 2021 : Ongoing development (core modules)
  - 2022: Ongoing development (stabilization of core modules)
  - 2023 : Awareness, training and pilot projects
  - 2024 : Implementation in selected countries (plan)

This is a very long-term capacity building activities which requires solid governance structure and sustained funding mechanism





**Thank you.**