

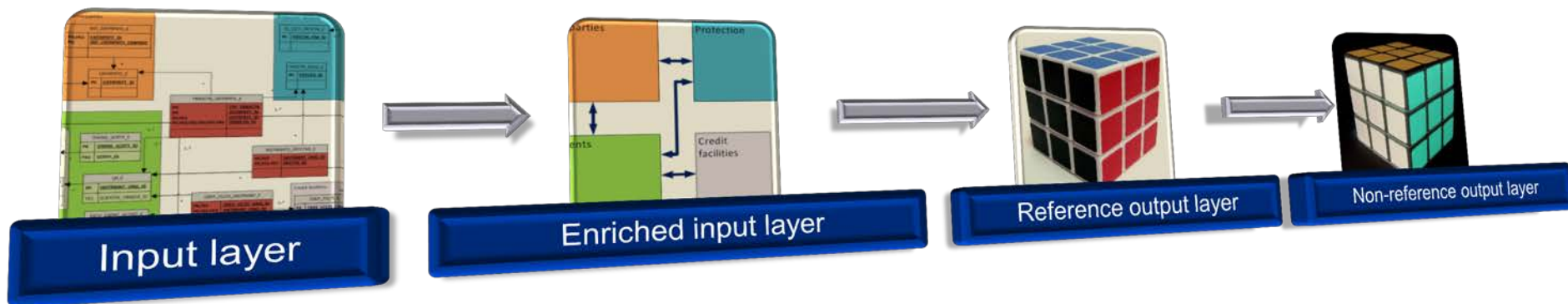


EUROPEAN CENTRAL BANK

EUROSYSTEM

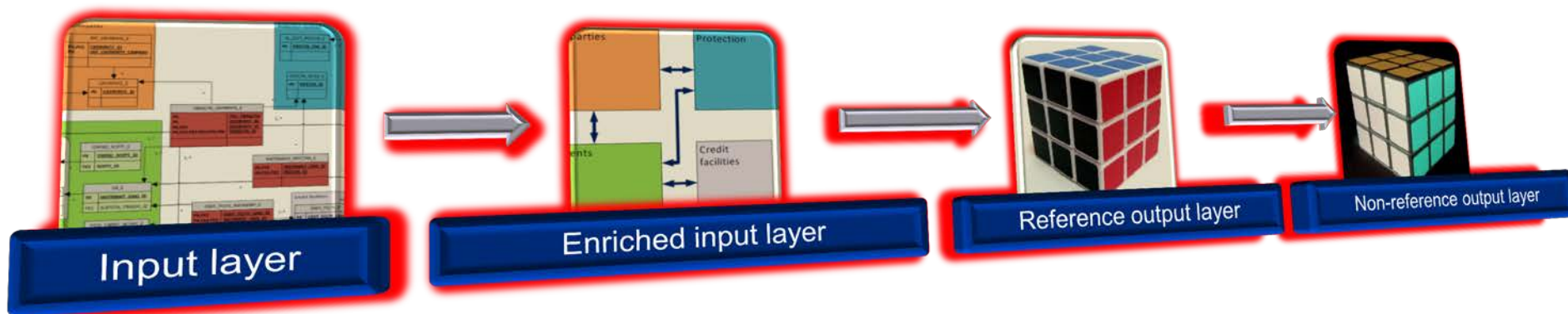
# BIRD testing

## BIRD Process overview



- Feeding the **input layer** from bank's internal IT systems, following the structure of the input cubes defined by BIRD
- Creation of **enriched input layer** (i.e. an intermediate layer that is used to generate all reporting requirements)
- Generation of **reference output layer**
- Generation of **non-reference output layer** (by applying mappings)

## Workstream on testing (WS-TEST) – overview



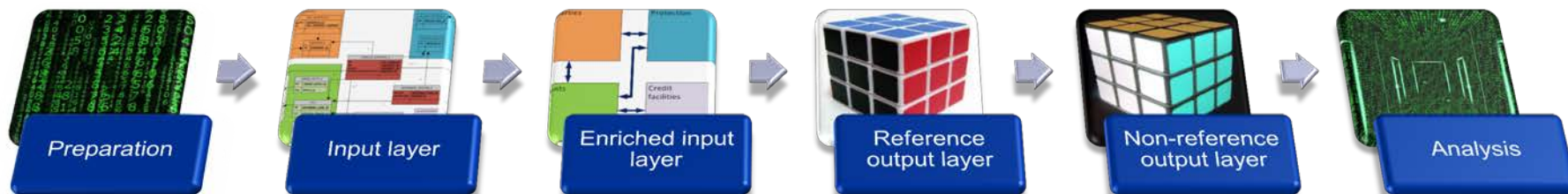
### Motivation

- Verification if the ***BIRD process produces reliable data***

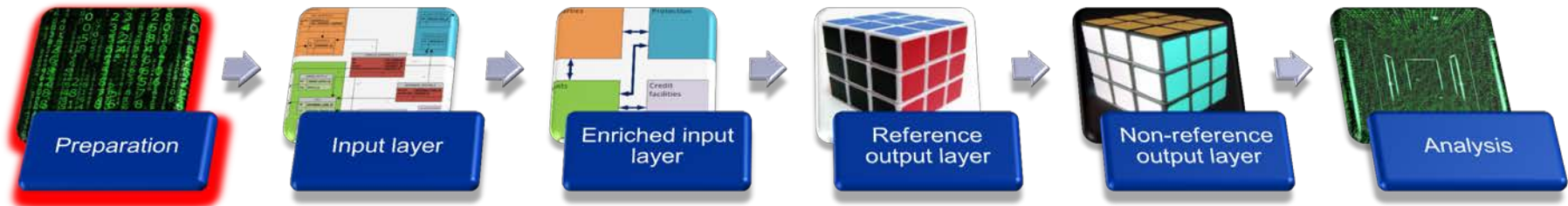
### Deliverables

- ***Deliverable 1***: “Provide / generate test data”
- ***Deliverable 2***: “Based on the test data, verify (in a **reproducible way**) if the BIRD transformation rules generate correct results”
- ***Deliverable 3***: “Provide suggestions for improvement regarding errors / issues spotted in Deliverable 2”

## Workstream on testing (WS-TEST) – details



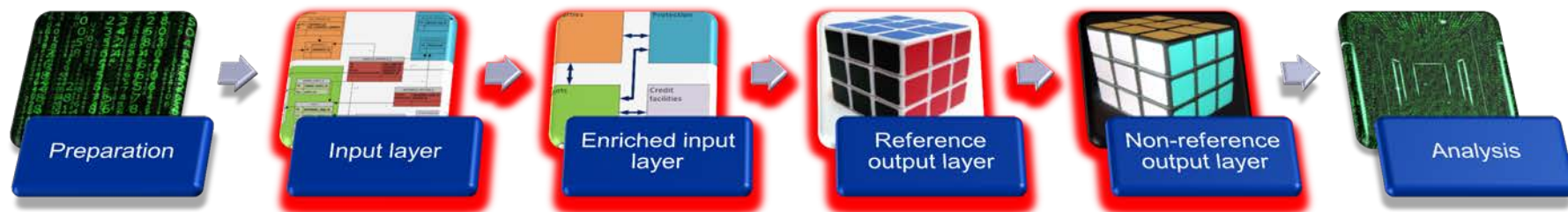
## Workstream on testing (WS-TEST) – details



### ➤ Preparatory activities

- Business preparation
  - Definition of test cases (that form the test data)
    - **Description of test cases including the assignment to the output layer** (where do we expect this test case to be assigned in the output layer?)
- Technical preparation
  - **Create layers** (i.e. input layer, enriched input layer, reference output layer, non-reference output layer)
  - Transform **test data** into BIRD input layer structure
  - Provide a way to apply BIRD transformations (e.g. engine built on VTL? VTL into SQL?) on the test data

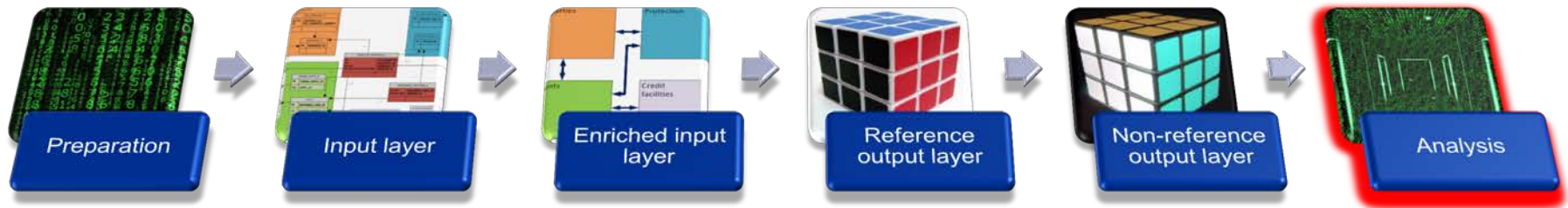
## Workstream on testing (WS-TEST) – details



### ➤ Execution of BIRD process

- Apply transformation rules on the input layer in order to generate the enriched input layer (including validation results)
- Apply transformation rules on the enriched input layer in order to generate the output layers

## Workstream on testing (WS-TEST) – details



### ➤ Output analysis

- Compare the results of the BIRD process (i.e. output layer) with the expected results (that were initially assigned to each test case)
- Provide suggestions for improvement