Goals of the day
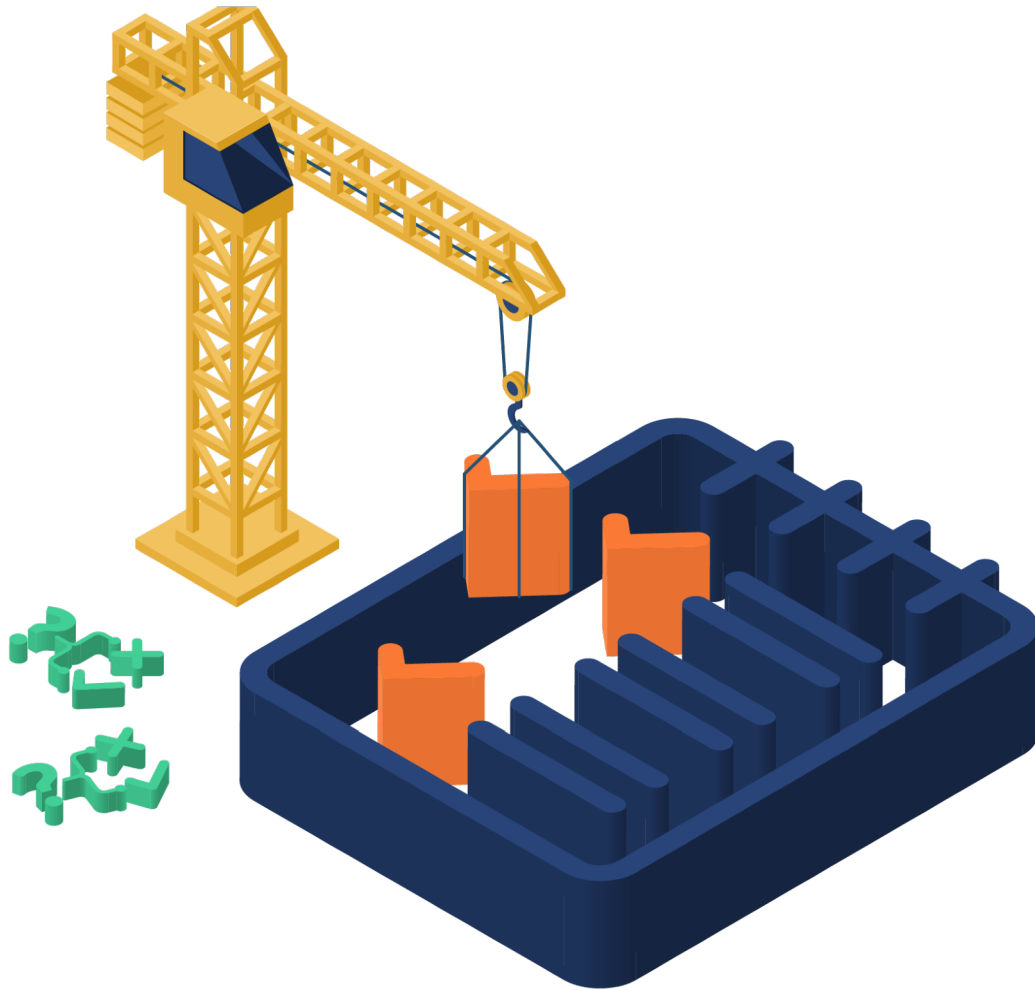
Getting to know more about MOTUS
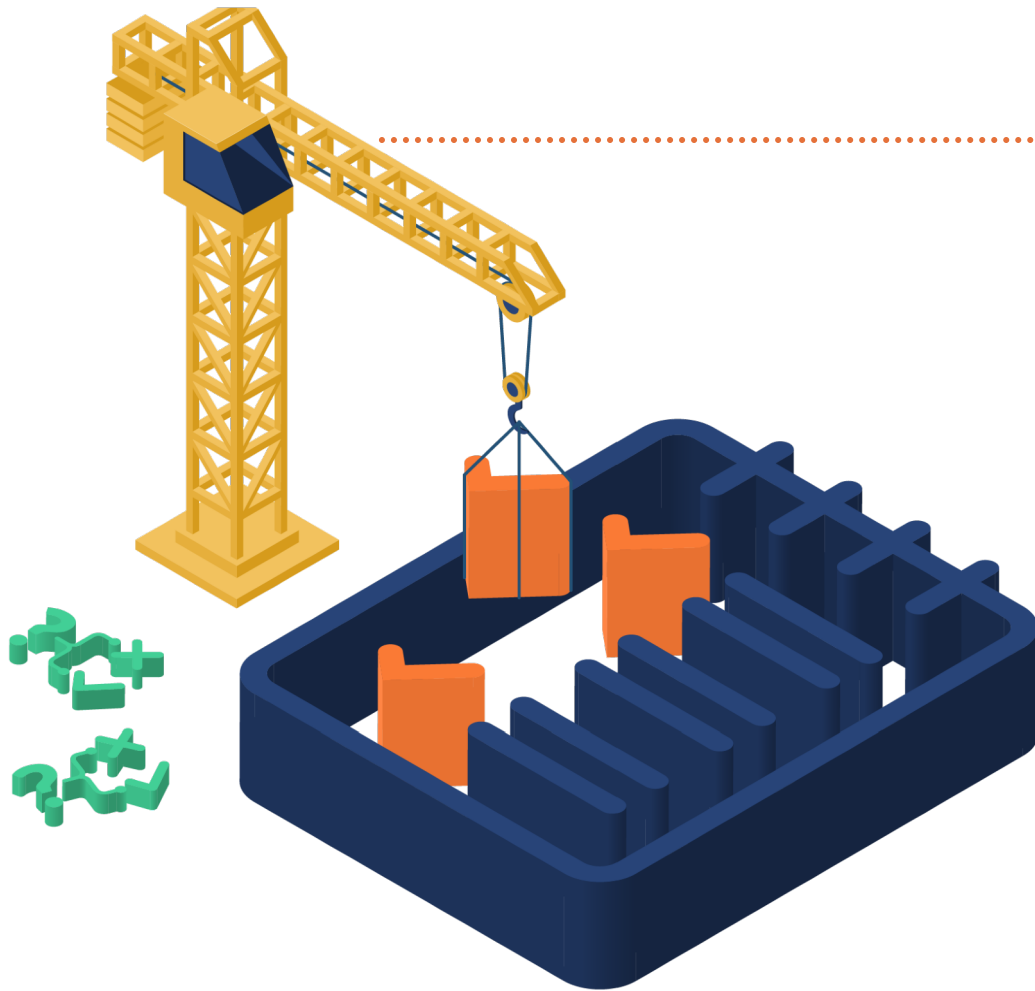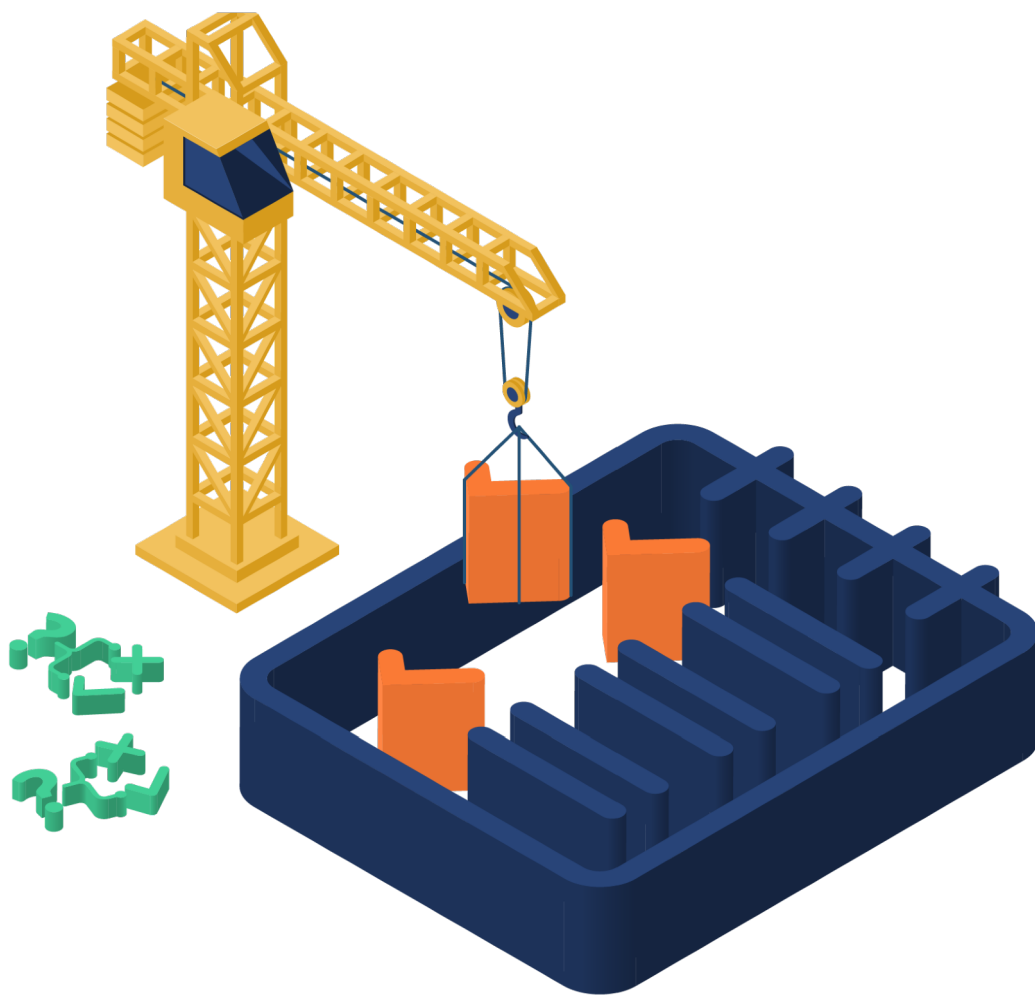
Creating studies in the back-office

HBS   TUS

Opening of the workshop
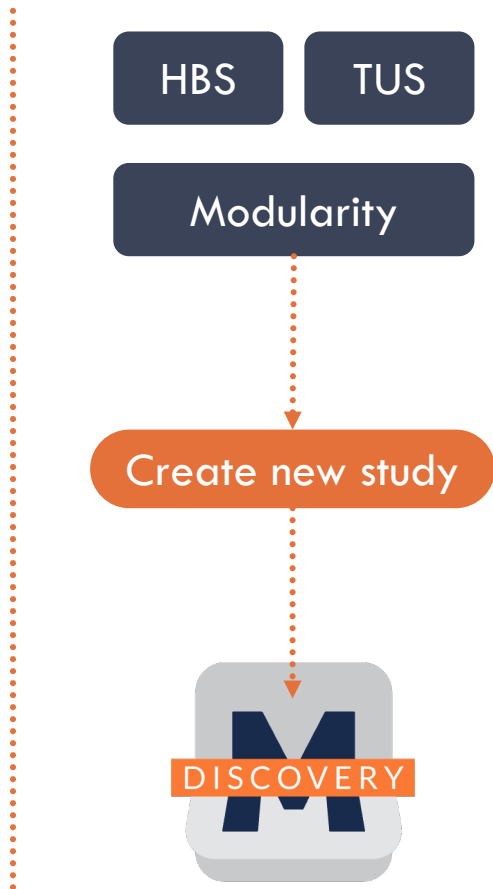
Eniel Ninka

Agenda – first and second part

1 What is MOTUS?

- UI/UX
- Components or 'builders': back-office
- Architecture

2 Creation of a TUS or HBS app

Preview of the promise

HBS

TUS

Modularity

Create new study

M DISCOVERY

MO:TUS All studies

Joeri Minnen
Administrator

Dashboard
All studies
Add new study
My team
Administrator

Study title
Search for a name

Filter
All studies

Current studies
All studies online at the moment. Both active and pauzed

0   Active ●
Demo HBS part 1

Last response: 2 March 2023   Details

0   Active ●
Demo HBS part 2

Last response: 2 March 2023   Details

0   Active ●
Demo TUS part 1

Last response: 24 February
2023   Details

0   Active ●
Demo TUS part 2

Last response: 24 February
2023   Details

Create new study

2x2

Meet the team

hbits

VUB
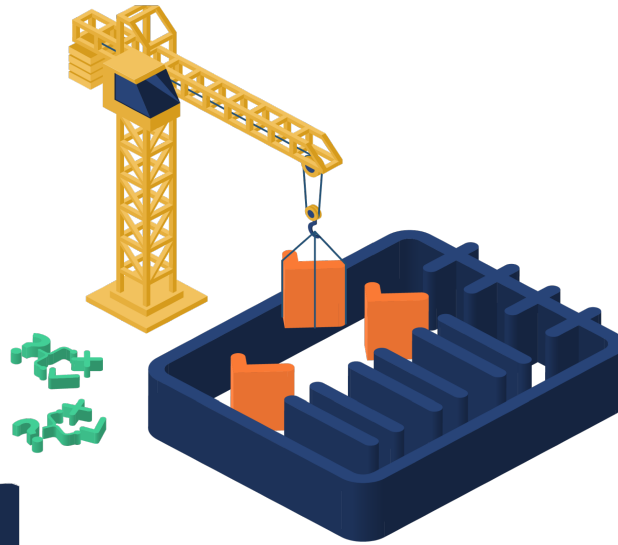
Statbel

Destatis

hbits

What is MOTUS?

Front-office

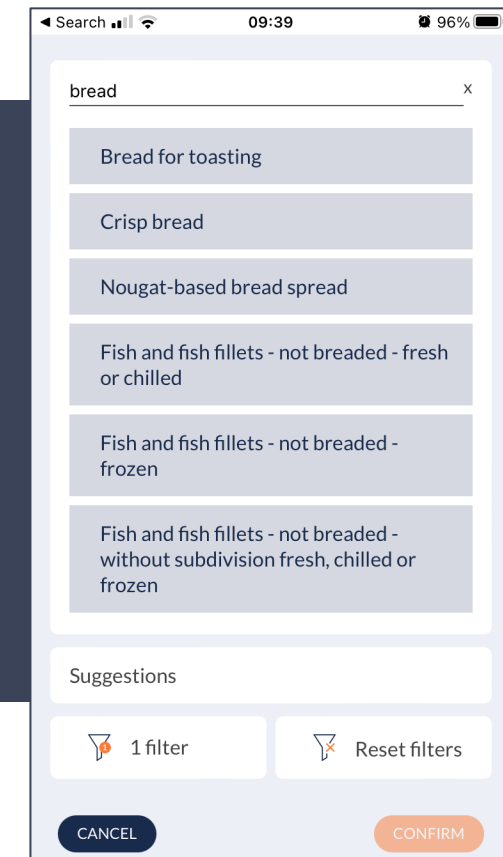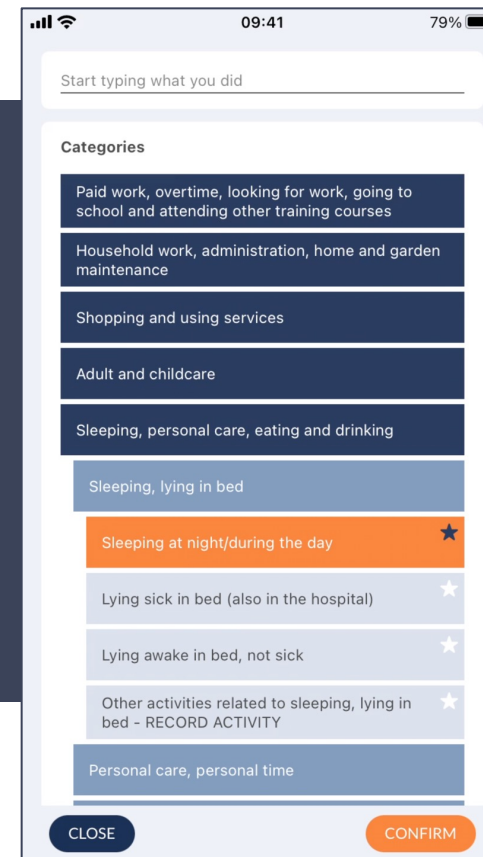# Mobile & Web application: interchangeability

- **Mobile application**
  - iOS store
  - Android store
- **Web application**
  - All browsers
- **Study content is defined via the back-office**
  - Survey
  - Diary
  - Communication
- **Languages**
  - .xliff files
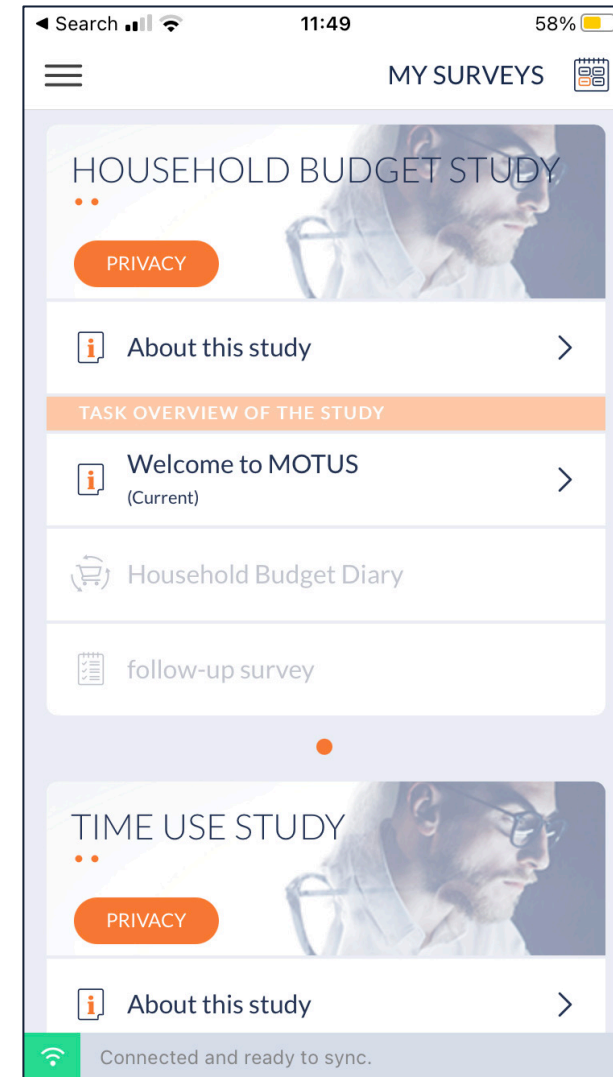 - Via back-office

Mobile & Web application: cross-domain

One app, same design components

Mobile & Web application: CRŒSS-project
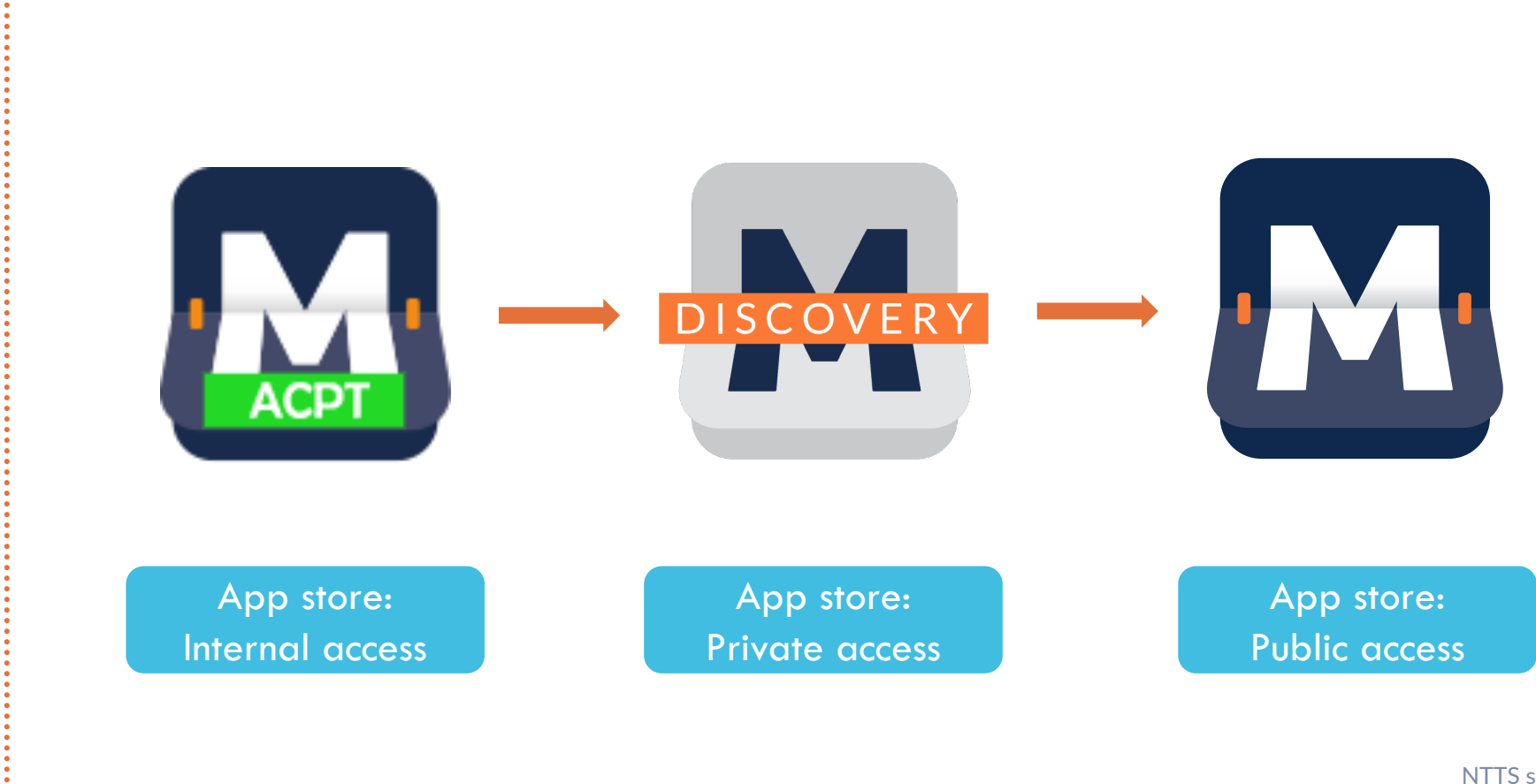
Mobile & Web application: unified calendar

Focus periods

Quality checks

App building process

Adding new functionalities

Coding new functionality into the MOTUS app
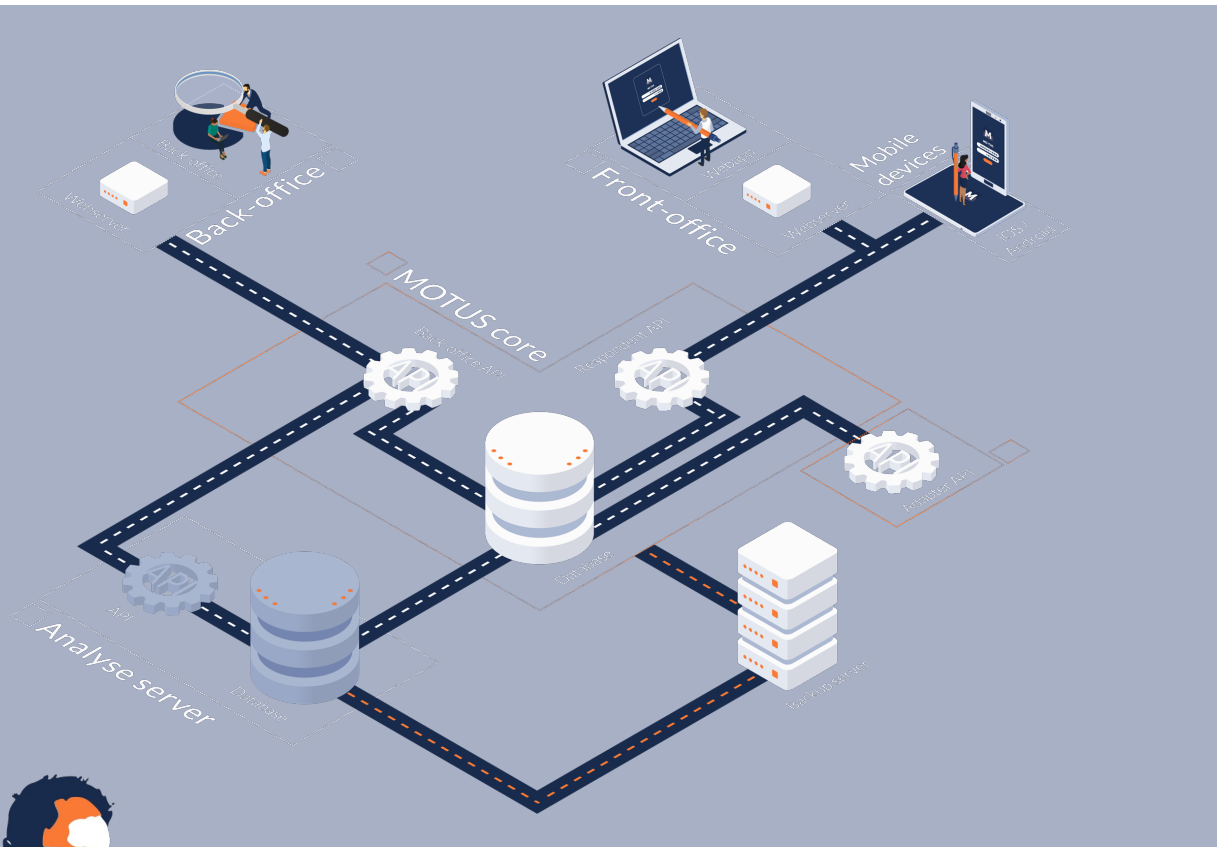

App store:
Internal access

App store:
Private access

App store:
Public access

App building process

</> MOTUS code

Build Specifications

MOTUS app builder

MOTUS apps with custom layout

App building process

Development

Custom build specification

Logo

Link to server

Available languages

Added language

MOTUS app builder

List enabled MOTUS features

User help & privacy page

App store

Test enviroment

New app ID

App information

Screenshots

Privacy declaration

Live public/private app

:

What is MOTUS?

Back-office

Back-office: https://www.motusbuilder.io

Front-office for researchers
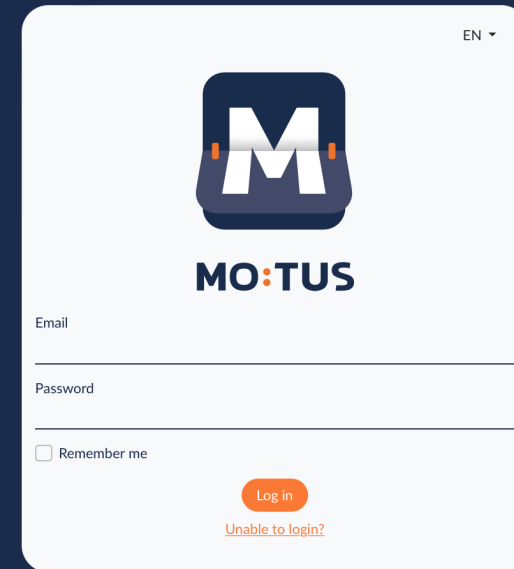
Made out of builders

Today   https://demo1-backoffice.motusdemo.com

Concept of Modularity – Builders: GSBPM

| 1 | 2 | 3. Build | 4. Collect | 5. Process | 6 | 7 | 8 |

Specify needs	3.1 Reuse or build collection instruments	4.1 Create frame and select sample	5.1 Integrate data	Analyse
Design	3.2 Reuse or build process and analysis components	4.2 Set up collection	5.2 Classify and code	Disseminate
	3.3 Reuse or build dissemination components	4.3 Run collection	5.3 Review and validate	Evaluate
		4.4 Finalize collection	5.4 Edit and impute	
	3.4 Configure workflows		5.5 Derive new variables and units	
	3.5 Test production systems		5.7 Calculate aggregates	
	3.6 Test statistical business process		5.8 Finalize data files	
	3.7 Finalize production systems			

MOTUS includes some parts of these phases

MOTUS mapped on GSBPM levels

MOTUS-builders

Specify needs

Design

3 Build

Device | Survey | Diary | Grid | Communication

4 Collect

Language | Invitation | Research

5 Process

Dashboard | R

+ Analyses

+ Disseminate

Evaluate

+ Event ⋯⋯⋯ GeoService ⋯⋯⋯ ReceiptService
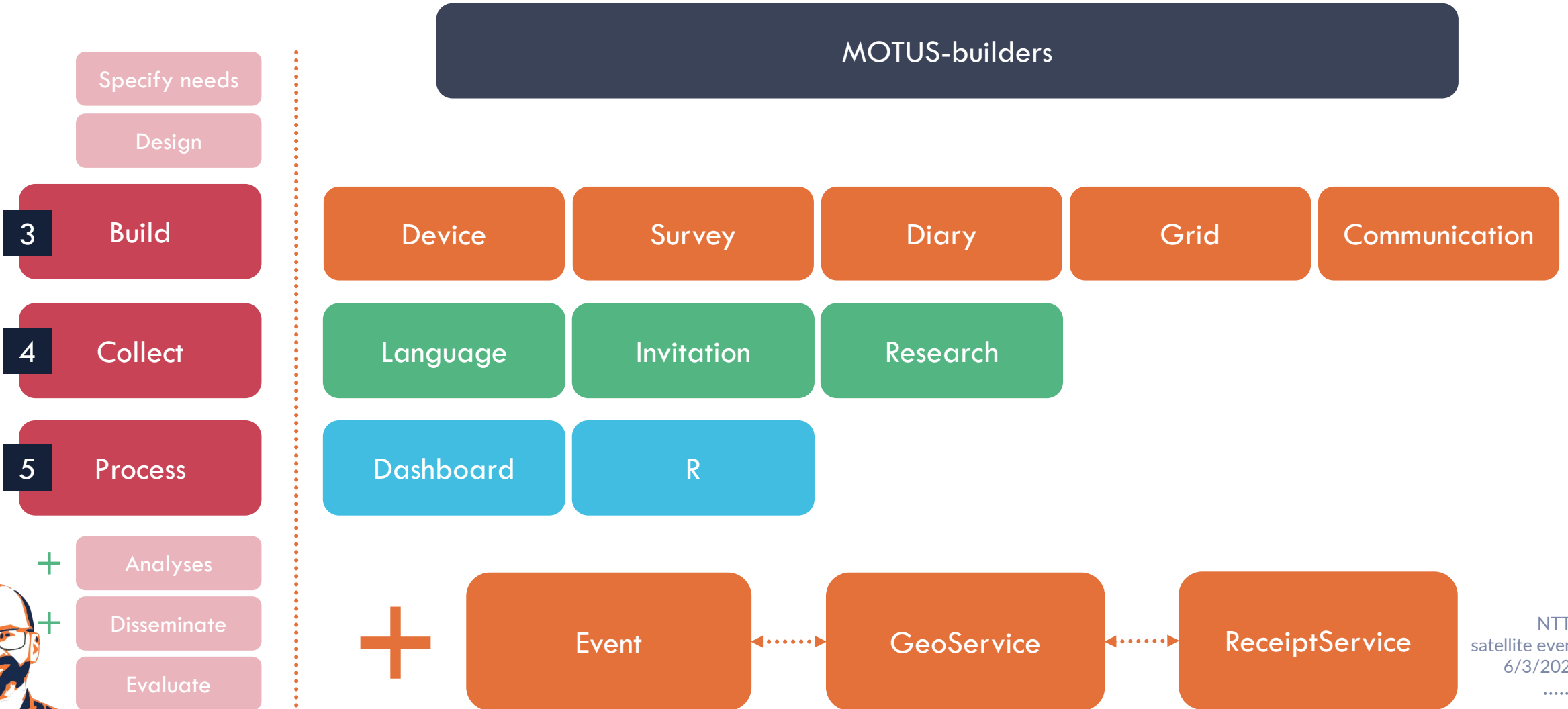
Build process: creating study components
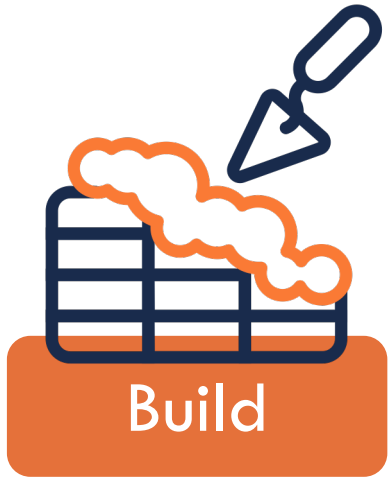
Build

Communication	Survey	Activity	COICOP	Group
TUS & HBS	TUS & HBS	TUS	HBS	

Demo front-office: TUS

Setup of a Time Diary

Closing
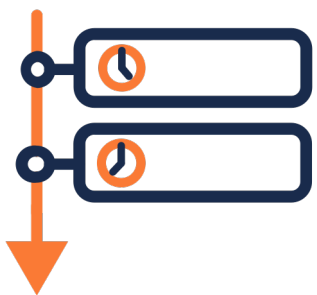
Input

Configuration
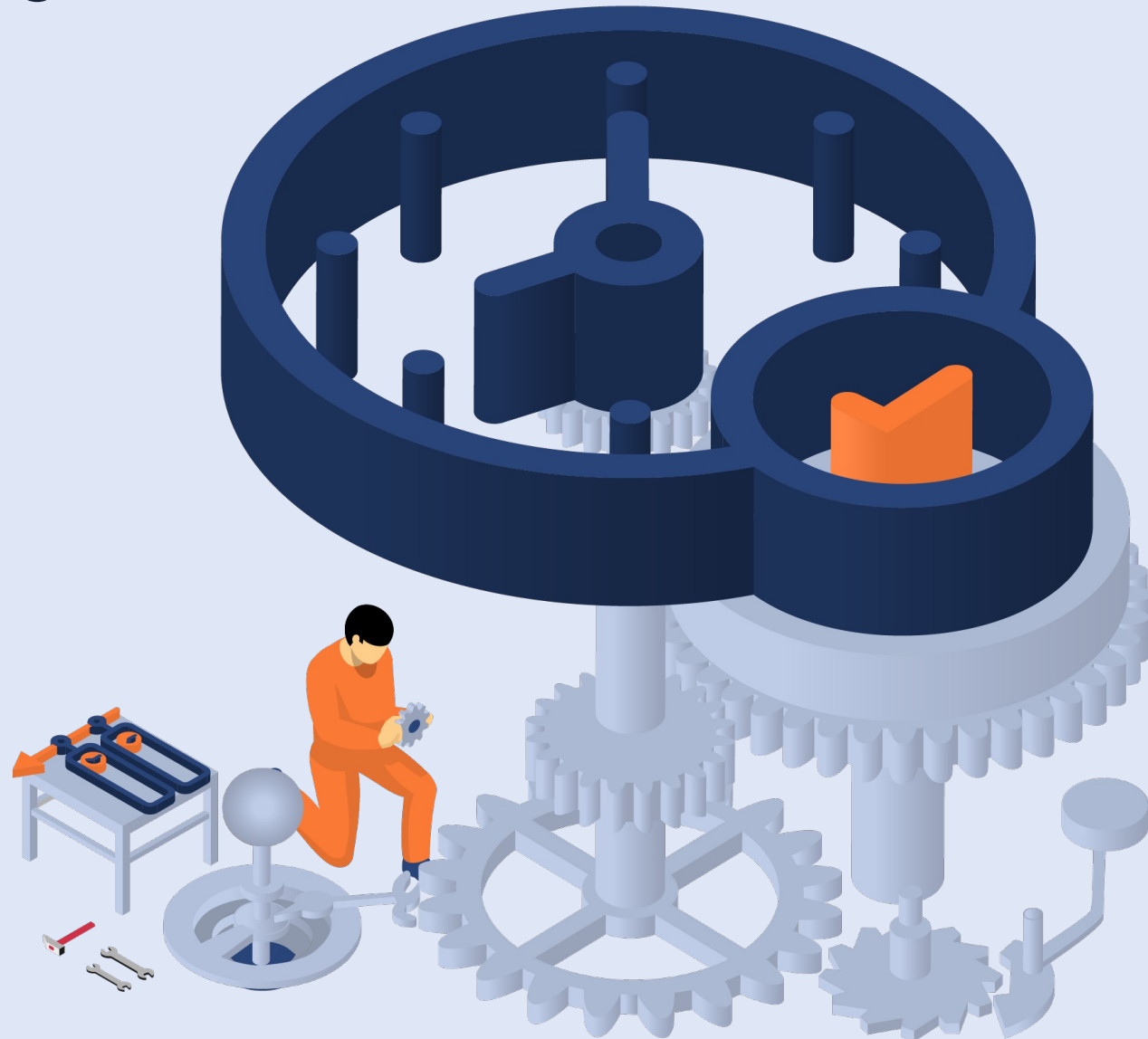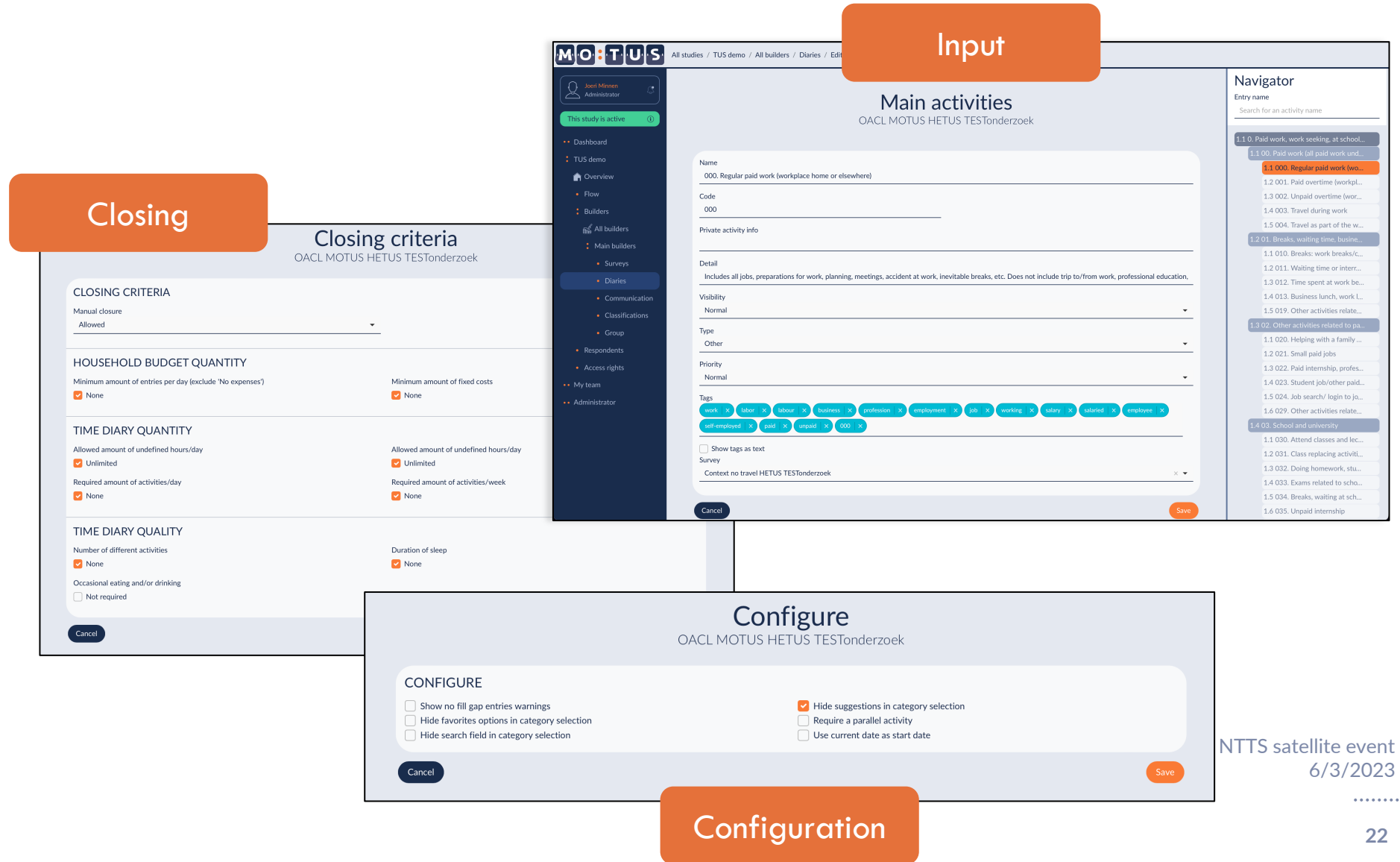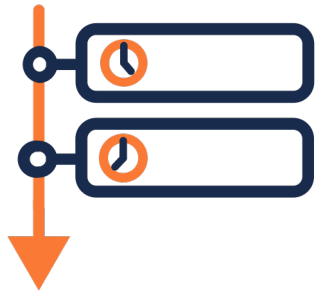
Setup of a Time Diary
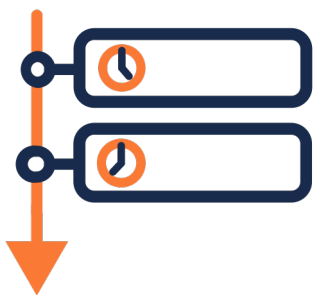
- **Activity list**
  - Primary activity
  - Secondary activity
  - Tags
- **Context questions**
  - One for all
  - Specific
  - Open text
- **Parameters**
  - Grain of precision
  - Focus
  - Cycle
  - Learning period

Setup of a Time Diary

- **Registration methods**
  - Search
  - Categories: up to 3 level deep
  - Suggestions
  - Favorits
- **Registration functions**
  - Ongoing
  - Copy, Split, Merge
- **Support**
  - Overview
  - Quality checks
  - Assistent

Demo front-office: HBS

Setup of a Household Budget Diary

Details

List

Search

Setup of a Household Budget Diary

Filters

Fixed costs

Setup of a Household Budget Diary

- **COICOP list**
  - Structured flat list
  - Tags - Meilisearch
- **Registration functions**
  - Search
  - Filter (up to 10 categories)
- **Extra questions**
  - Country
  - Ticket level
  - Product level

Setup of a Household Budget Diary

- **Fixed costs**
  - Up to 14 fixed costs with sublevels
  - Cycle of payment
  - Integration in COICOP-list
- **Calculation**
  - Summation
  - Reduction
  - Return
- **Ticket level**
  - Overview of purchases
  - Shop registration

Setup of a Survey

Setup of a Survey

- **Various question types**
  - Up to 14 different question types
  - Variable name
  - Layout
  - Sorting order
  - Settings
- **Logic/routing**
  - Conditional logic
  - Hide/jump questions
- **Question validation**
  - 2 step validation
- **Merge fields/group answers**
  - Input value
  - Return value

Setup of Communication

- **Types of communication via editor**
  - Email
  - Pages
  - Notifications
- **Variable fields**
- **Email template/preview**
- **Communication settings**
  - Contacts of the study
- **Specific communication**
  - Password reset
  - Activation account
  - Privacy
  - FAQ/Help

Demo front-office: My Group

Setup of a Group

Define group

Define relations

Answer extra questions

Setup of a Group

- Step 1
  - Group definition
  - Appointment of reference person
  - Backgound characteristics
  - Email address
- Step 2
  - Relationship
  - 1-to-n
  - All-to-n
- Step 3
  - Added survey questions

- **Invitation to elegible members**

Setup of a Group

Group members
Demo HBS part 1

STEPH YU

First name	Steph
Last name	Yu
Email	stephalcalayu@gmail.com
Birthday	20/06/1989
Gender	f
Relation	wife

Other relations of Steph Yu

Linde Yu-Cortebeeck	daughter (biological/adoptive)
Kamil Yu-Cortebeeck	son (biological/adoptive)

Answers

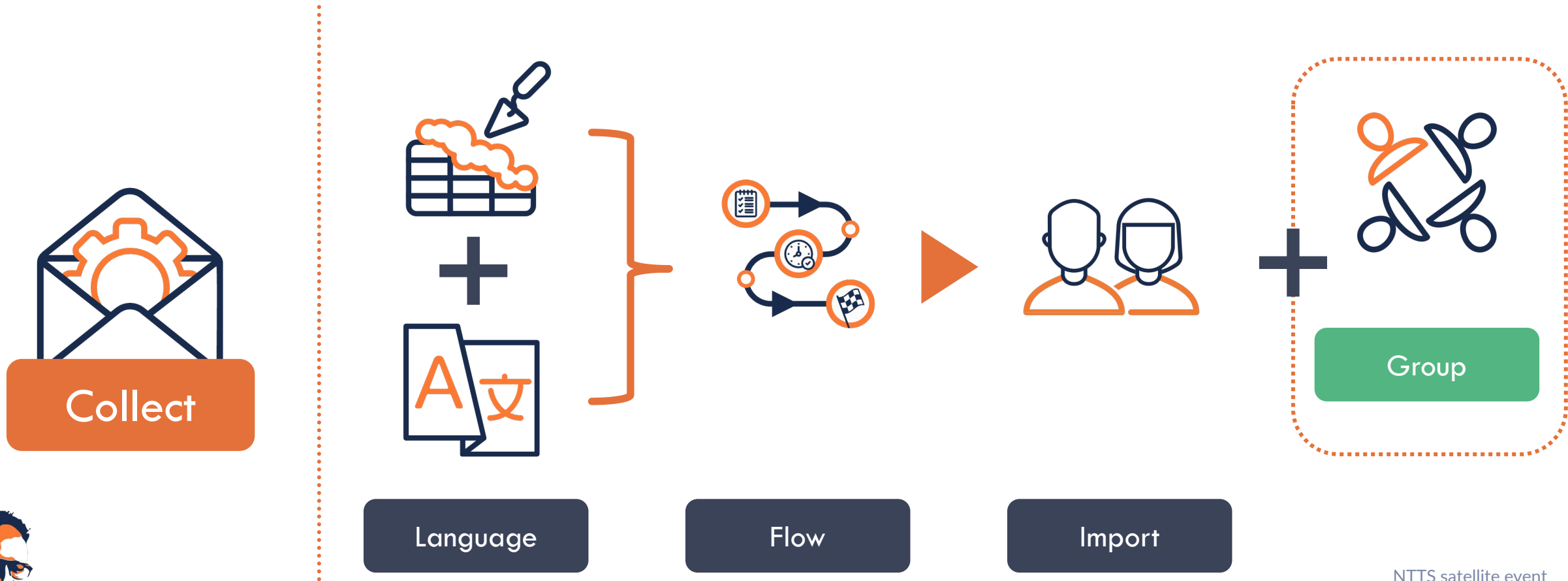Next study: Demo HBS part 2

Goto respondent · Goto flow

LINDE YU-CORTEBEECK

First name	Linde
Last name	Yu-Cortebeeck
Email	enak.cortebeeck@gmail.com
Birthday	11/03/2012
Gender	f
Relation	daughter (biological/adoptive)

Other relations of Linde Yu-Cortebeeck

Steph Yu	mother (biological/adoptive)
Kamil Yu-Cortebeeck	brother (biological/adoptive)

Answers

Next study: Demo HBS part 2

Goto respondent · Goto flow

KAMIL YU-CORTEBEECK

First name	Kamil
Last name	Yu-Cortebeeck
Email	
Birthday	17/06/2022
Gender	m
Relation	son (biological/adoptive)

Other relations of Kamil Yu-Cortebeeck

Steph Yu	mother (biological/adoptive)
Linde Yu-Cortebeeck	sister (biological/adoptive)

Answers

Close

Elegible

Elegible

Not elegible

Collect process: Collecting data

Collect

Language

Flow

Import

Group

Setup of Languages

Setup of a Study flow

Household survey

How to create a business process (BPMN)?

Setup of a Study flow – first study

Setup of a Study flow – first study

My group
Composition of My household

Edit 🗑

Action: [On complete] Go to household questionnaire
Action: [On time 2 days] First reminder to complete My group
Action: [On time 3 days] Second reminder to complete My household
Action: End research after 30 days

Household questionnaire
The reference person completes his or her household questionnaire.

Edit 🗑

Action: [On complete] Go to the information about the next study
Action: [On time 2 days] First reminder to complete Household questionnaire
Action: [On time 3 days] Second reminder to complete Household questionnaire
Action: End research after 30 days

Information about the next study
Information about the next study

Edit 🗑

Action: [On complete] Go to the next study
Action: [On time 1 day] Go to the next study

Finish
Continue to next research Test study Joeri second part
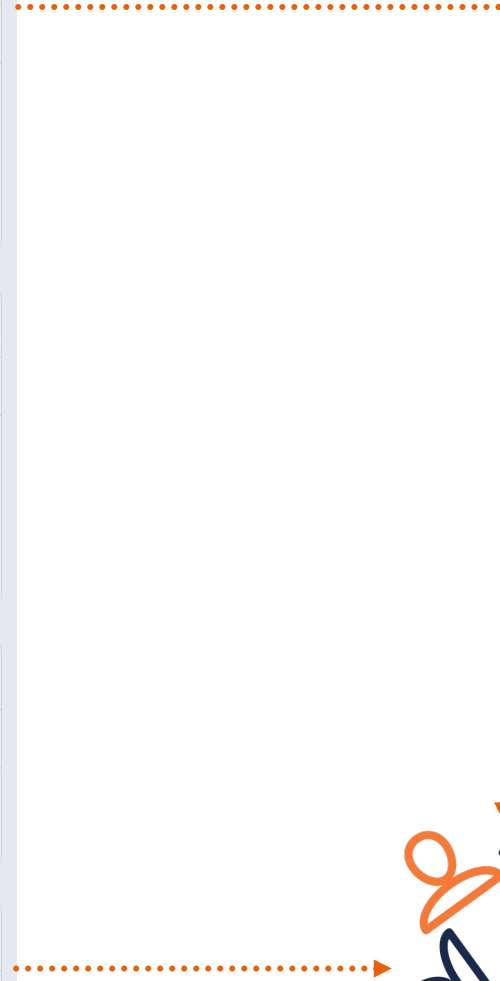
Edit

Setup of a Study flow – second study

Read in reference person and other household members
Read in to the second research

Edit

Action: [Event Enter from other research] Go to Start study

Action: [Immediately] Go to Start study

Start study
Invitation to the study

Edit

Action: [Immediately] Invitation to participate

Action: [On time 2 days] Reminder invitation to participate

Action: [On time 3 days] Second reminder to participate

Action: [On complete] Go to individual pre-questionnaire

Action: [At login] Go to individual questionnaire

Action: End research after 30 days

Individual pre-questionnaire
Completion of an individual pre-questionnaire

Edit

Action: [On complete] Go to Sync phase

Action: [Immediately] Start individual pre-questionnaire

Action: [On time 2 days] Reminder to start individual pre-questionnaire

Action: End research after 30 days

Entry household members

Phases

Setup of a Study flow

Sync phase
Mapping all household members together

Edit 🗑

Action: [On complete] Go to individual post-questionnaire ✏ 🗑
Action: [On time 2 days] Reminder to go to HBS diary ✏ 🗑
Action: [On time 3 days] Reminder to go to HBS diary ✏ 🗑

HBS diary

Edit 🗑

Action: [On complete] Go to individual post-questionnaire ✏ 🗑
Action: [Immediately] Email with information about the HBS study ✏ 🗑
Action: End research after 30 days ✏ 🗑

Individual post-questionnaire

Edit 🗑

Action: [On complete] Go to finish ✏ 🗑
Action: [Immediately] Start individual post-questionnaire ✏ 🗑
Action: [On time 2 days] Reminder to start individual post-questionnaire ✏ 🗑
Action: End research after 30 days ✏ 🗑

Research completed
Research completed

Edit 🗑

Action: [Immediately] Research completed ✏ 🗑
Action: [On time 7 days] Go to finish ✏ 🗑

Finish
End the research

Edit

In this phase, all participating members are synchronised for the next phases of the survey. The list below shows the members of your household who are already in the same phase. By clicking on the household member, you will see the person's details and current position in the survey. If you are the reference person for your household, you can continue the survey when everyone else has reached this stage (the person has a tick in his/her name). You can also remove persons from the list first and then proceed to the next phase.

Joeri Minnen ✔

Karolien Luyten 🗑

Continue

Details of the group member and their current position in the research.

Name
Karolien Luyten

Current research phase
Aanmelden

Current state
Active but in previous phase.

Setup of Invitations

Setup of Invitations

The Respondent Flow: individual progress

What is MOTUS?

:

Architecture

Privacy by design

Password requirements

Access rights

Data storage

+
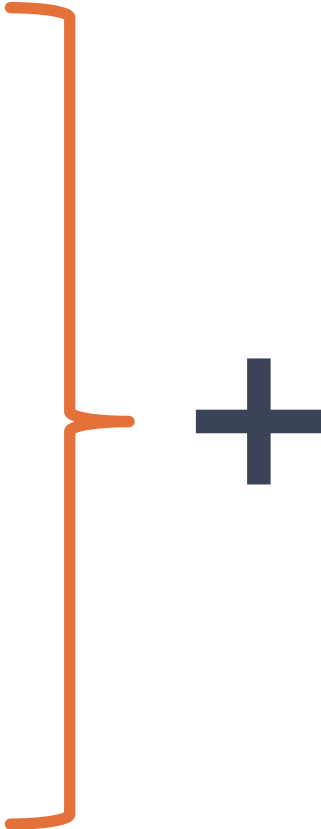
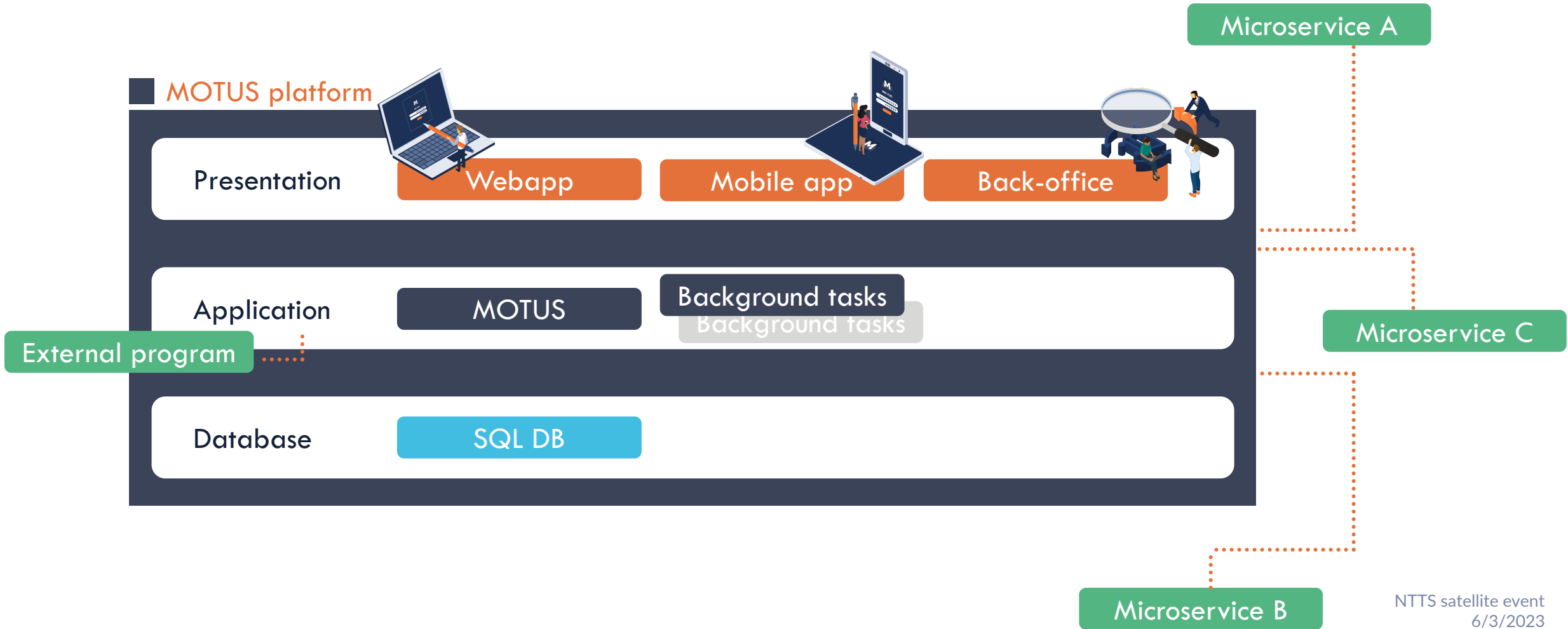## Our full privacy declaration

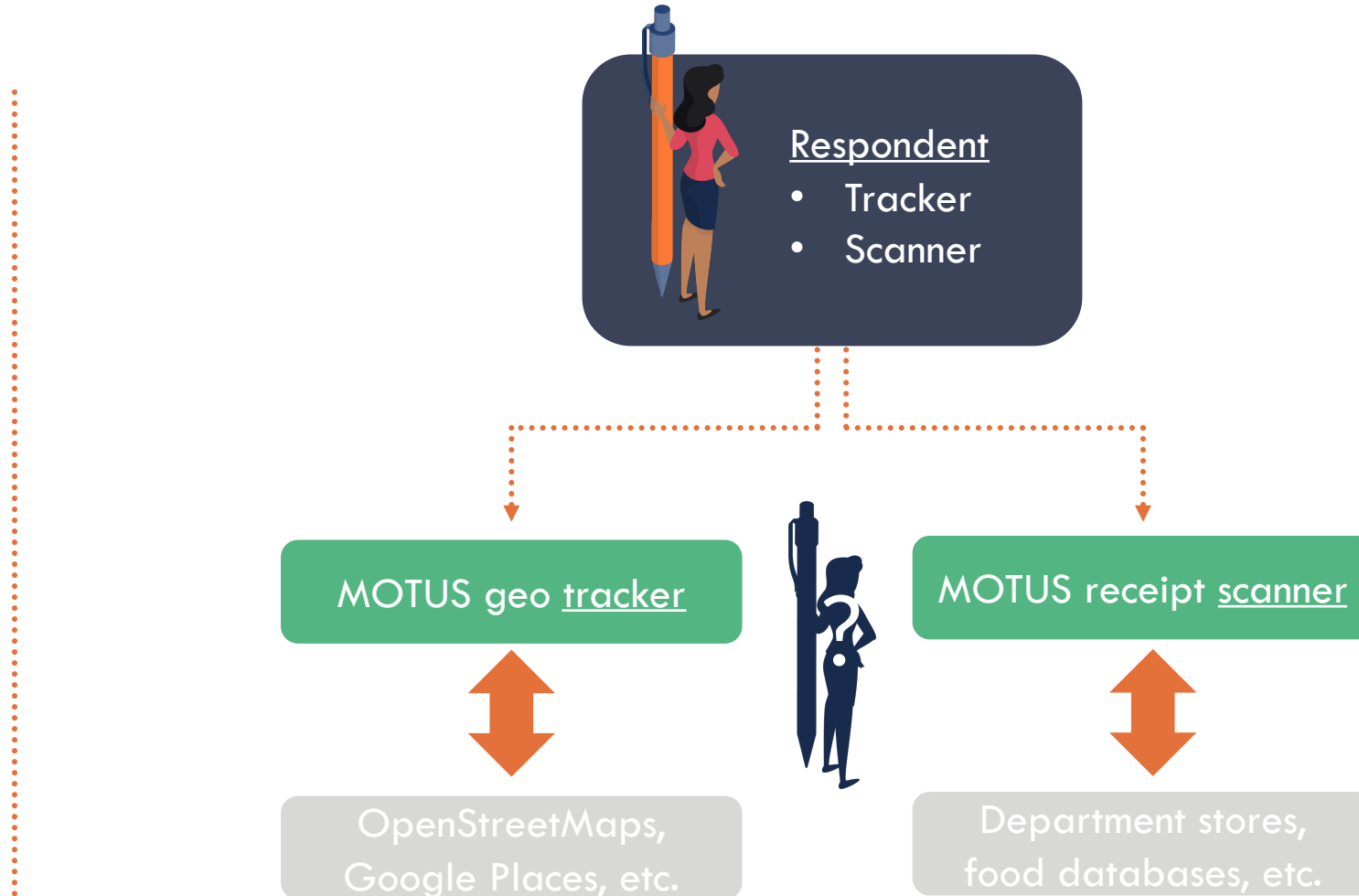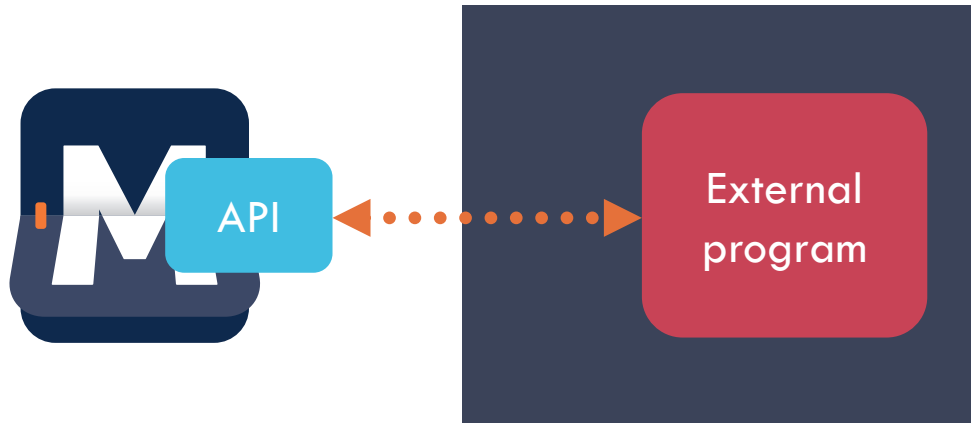|	
1. Introduction to the Privacy Policy MOTUS	+
2. Data controller	+
3. Scope and acceptance of this privacy statement	+
4. Collection of data	+
5. Children's personal data	+
6. Purpose of data collection	+
7. Data storage	+
8. Data recipients	+
9. Data retention period	+
10. Rights with regard to personal data	+
11. Further questions	+
12. Compliance with privacy legislation and complaints	+

MOTUS Platform
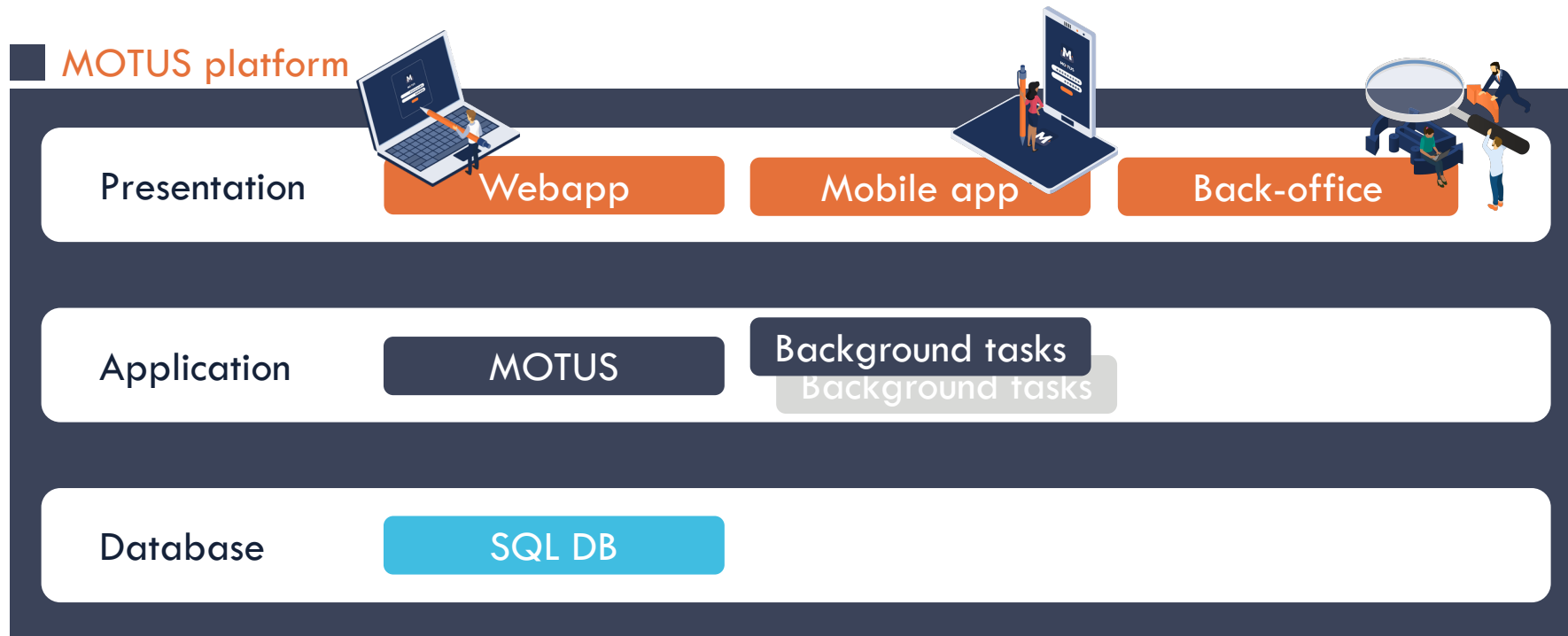
MOTUS Platform

MOTUS Platform – Microservices / Privacy

MOTUS Platform: REST API connector

NTTS satellite event
6/3/2023

53

MOTUS Platform: Shareability

Set of containers

Component

Dependencies

Cloud

NSI server

Local

MOTUS Platform: Shareability

Statbel, Belgium

Destatis, Germany
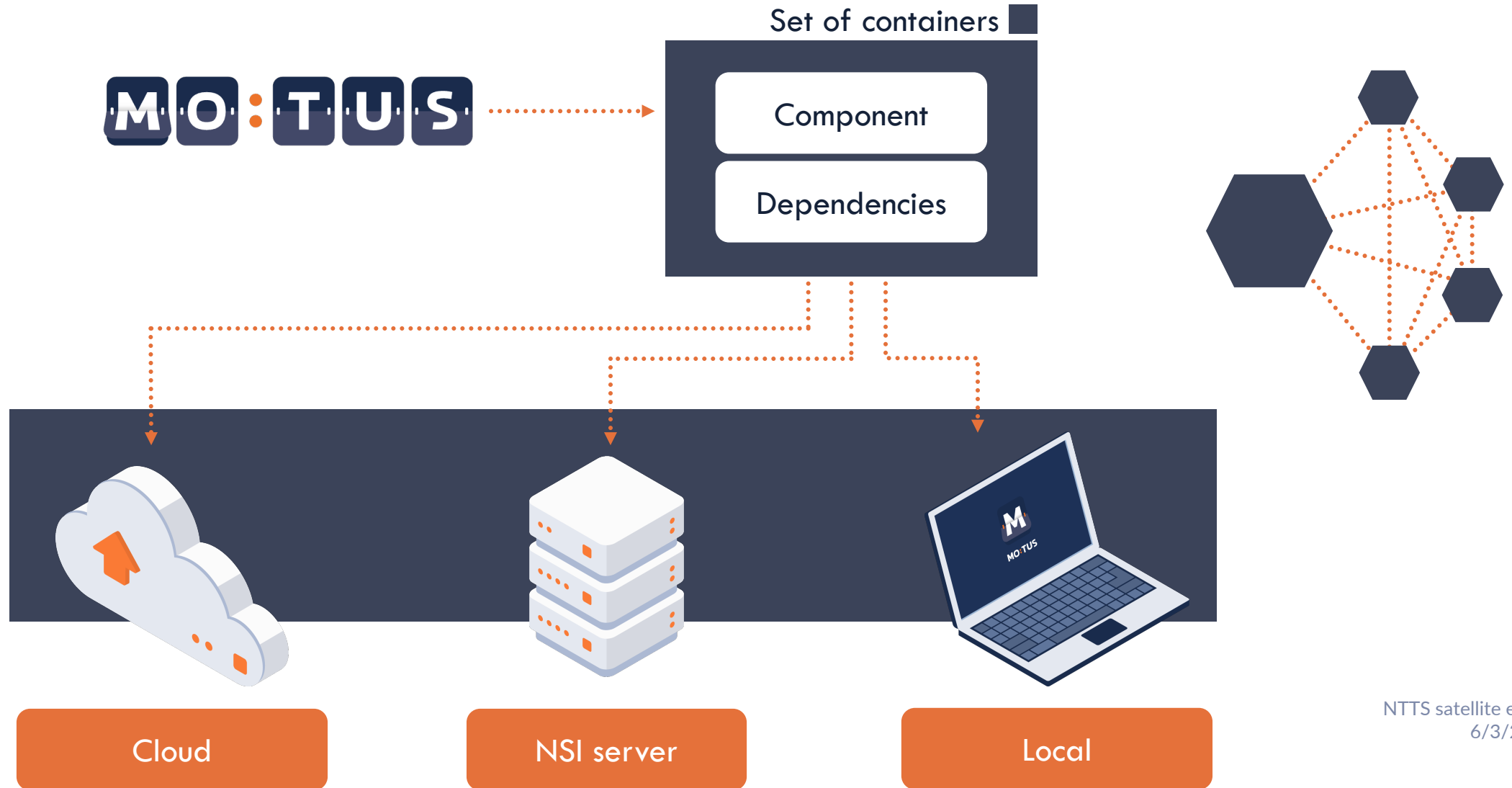
NSI x, country

Contact details

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Eniel.NINKA@ec.europa.eu

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Statbel
Patrick Lusyne
Patrick.Lusyne@vub.be

Destatis
Joël Van Hoorde
Joel.VanHoorde@destatis.de

:

Practical session

Information

... into the back-office yourself - with support

hbits
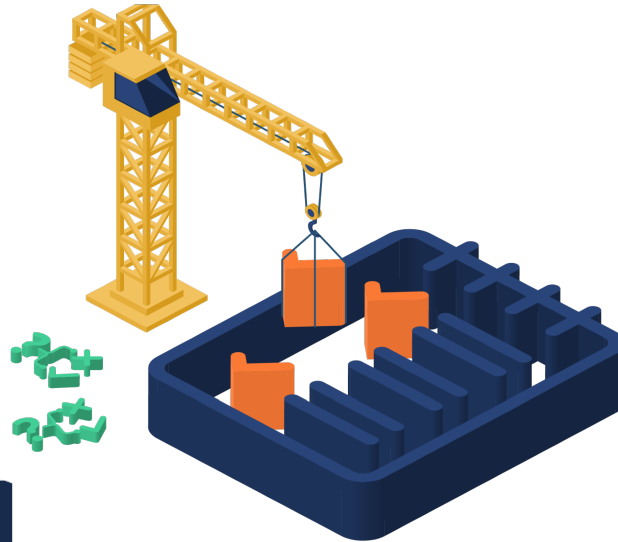
Statbel

Destatis

VUB

hbits

Groups definition

- 5 to 6 groups of max. 8 people
  - TUS
  - HBS
- Goals
  - To get an idea/impression
  - To explore the modularity of MOTUS
  - To ask questions
  - To inform about …
- Group entrance
  - Full entrance
  - Login: testgroupX@motusbuilder.io
  - Password: NTTS_groupX
  - Loop X: 1-10
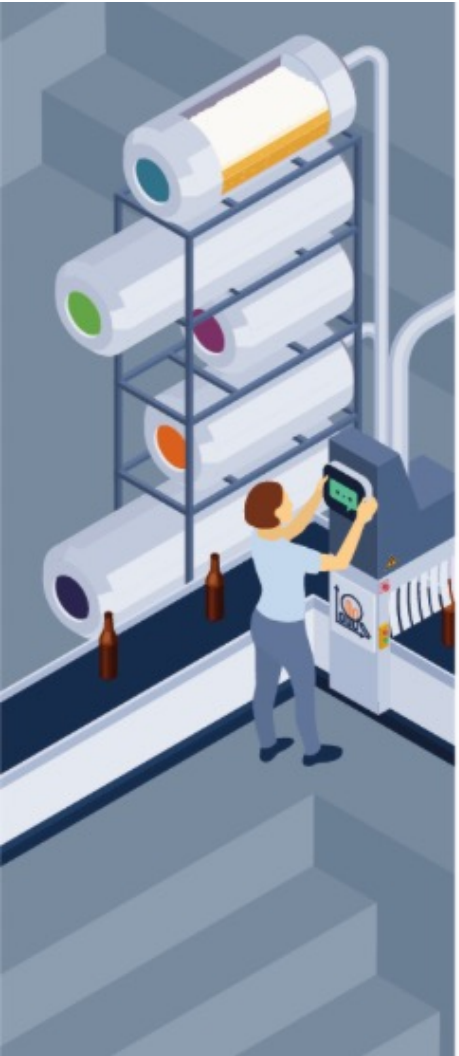
Usefull information

- OneDrive link with content information
  - Folder
- Entrance to MOTUS demo environment
  - Back-office: https://demo1-backoffice.motusdemo.com/
  - Web app: http://demo1-frontoffice.motusdemo.com/
  - iOS app: https://apps.apple.com/us/app/id956934466
  - Android app: https://play.google.com/store/apps/details?id=be.byteworks.motus
- Supporting website:
  - https://www.motusresearch.io
- Guidelines in development
  - https://bit.ly/HBSDiaryBuilderMOTUS

Find the slides on:
https://croessbacher.motusresearch.io