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The challenges of the PES in times of accelerated digital transformation

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The challenges of the PES in times of accelerated digital transformation



Mr. Thierry HUORT

Moderator / WAPES Consultant

Introduction



Mr. Mehdi KATTOU

Moderator

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The challenges of the PES in times of accelerated digital transformation



Opening speech



**Ms. Férihane
KORBI BOUSSOFFARA**
Director General of ANETI

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The challenges of the PES in times of accelerated digital transformation



Opening speech



Ms. Sihem AYADI

Acting Minister of the Ministry of Youth,
Sports and Professional Integration

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**The challenges of the PES
in times of
accelerated digital transformation**



Mapping out the technological transformation in Public Employment Services



Ms. Zulum AVILA

Technical Officer in Labour Market
Services Employment Policy Department,
OIT

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Use of technology by PES

ILO global survey

ANETI-WAPES webinar

The challenges of the PES in times of accelerated digital transformation

25 March 2021

Technology is changing service delivery

- ▶ Job-searching and recruitment methods are evolving
- ▶ Supporting service continuity and adaptation
- ▶ Use of big data and algorithms
- ▶ Increasing relevance with the COVID-19 pandemic
- ▶ Increasing need for target investments in service capabilities



What type of technology?

▶ Telephone

- Fixed line
- Mobile
- SMS
- Toll-free numbers
- Help desk and call centers

▶ On-line/mobile Apps

- E-mail
- Web Apps
- IP/GPS
- VoIP

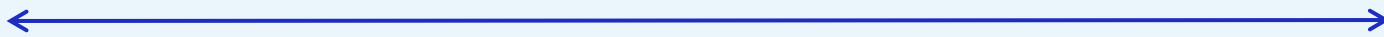
▶ Social media

- Facebook
- Tweeter
- Instagram

▶ Artificial Intelligence

- Big Data
- Conversational AI
- Data mining
- Self-learning algorithms
- Chat robots and smart software
- ▶ Face, voice recognition

Simple

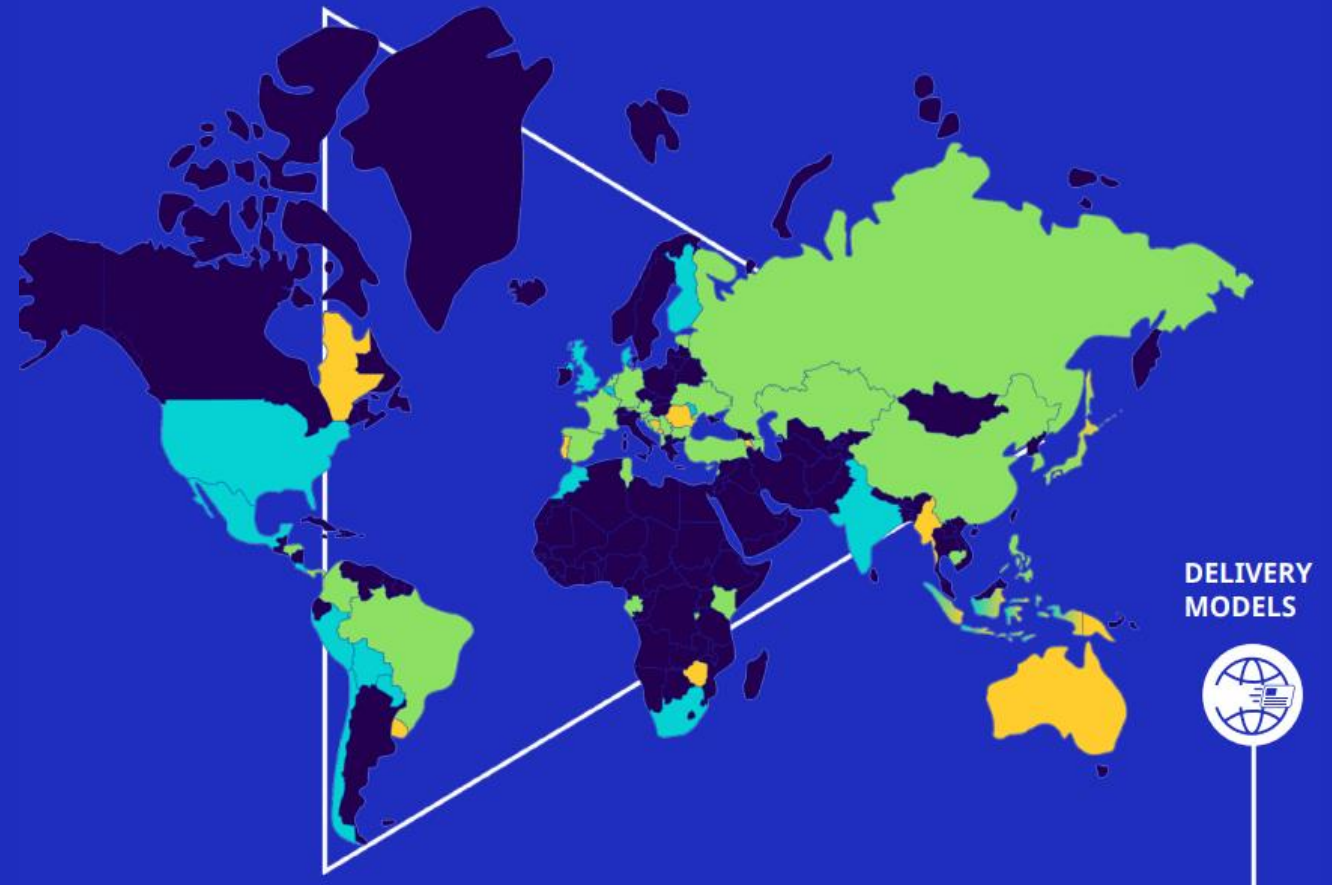


Complex

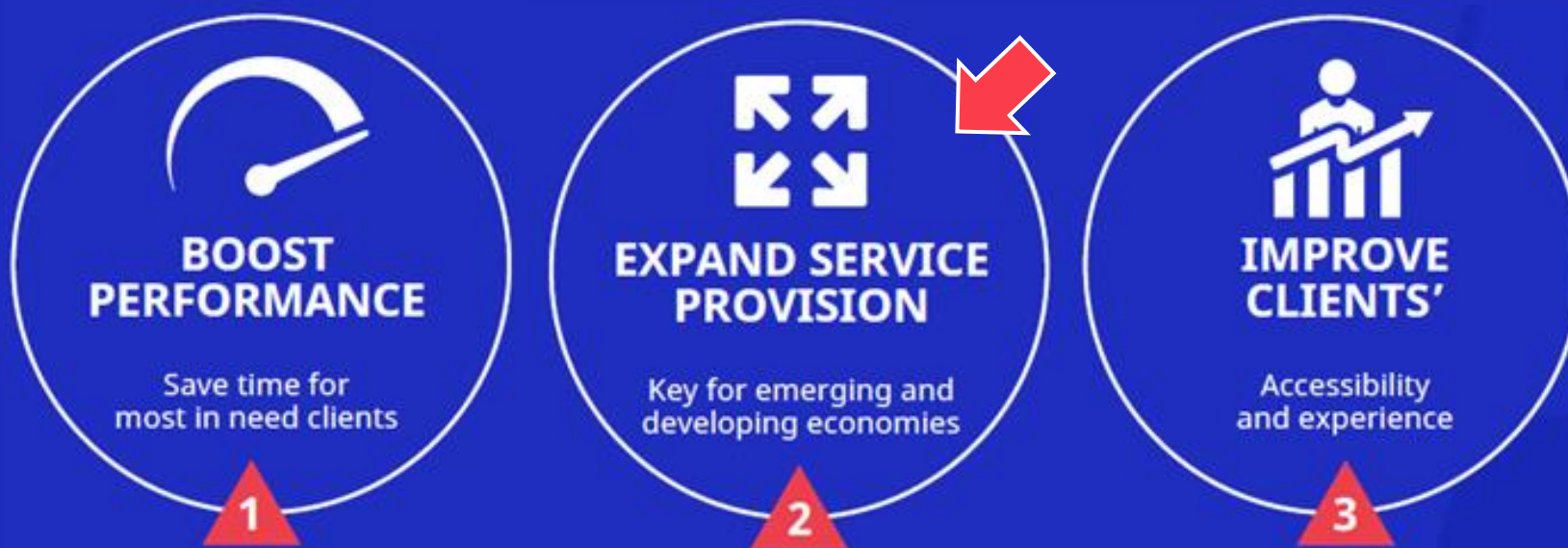
► PES delivery models

- All provide online basic services
- One third offer AI-driven solutions, still...
- Mixed solutions predominate
 - ▷ Face-to-face dominating in **21%**
 - ▷ Selected services in **52%**
 - ▷ Technology based services in **27%**

**75 surveyed PES
in 69 countries**







Drivers of PES technological transformation



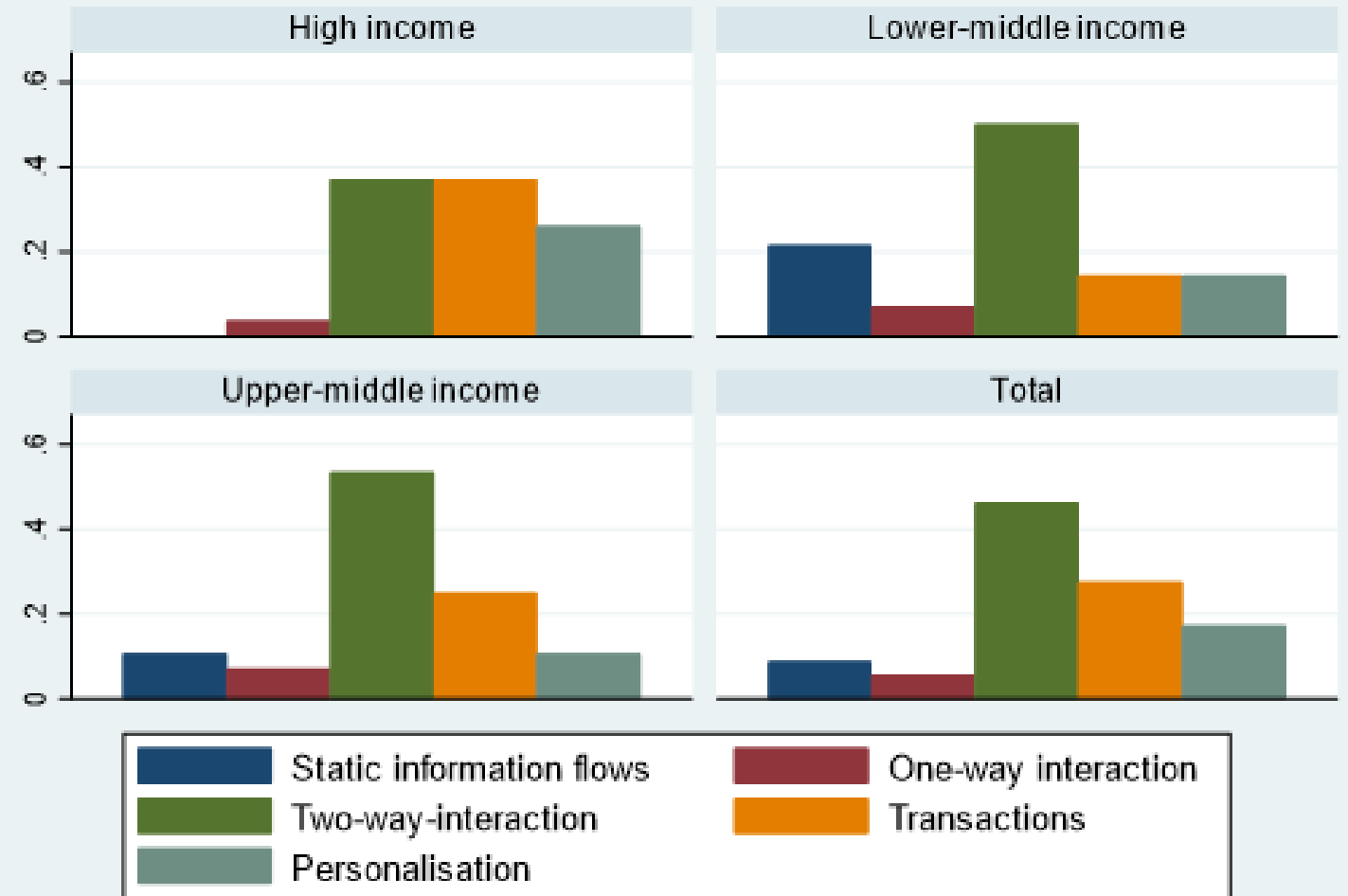
Services delivered using technology

- ▶ Complex services require advanced technology
- ▶ Broadband Internet connection and data remain an important bottleneck, particularly in low- and middle-income economies

SIMPLE	COMPLEX TECHNOLOGY			
				
General Information	100	100	100	100
Registration	97	97	98	96
Labor Market Information	95	96	98	95
Job Matching	89	88	89	90
Counselling	84	79	80	81
Skills Training	69	66	65	81
Self-Assessment	57	55	61	67
COMPLEX SERVICES	Phone	Online App	Social Media	AI

Clients experience

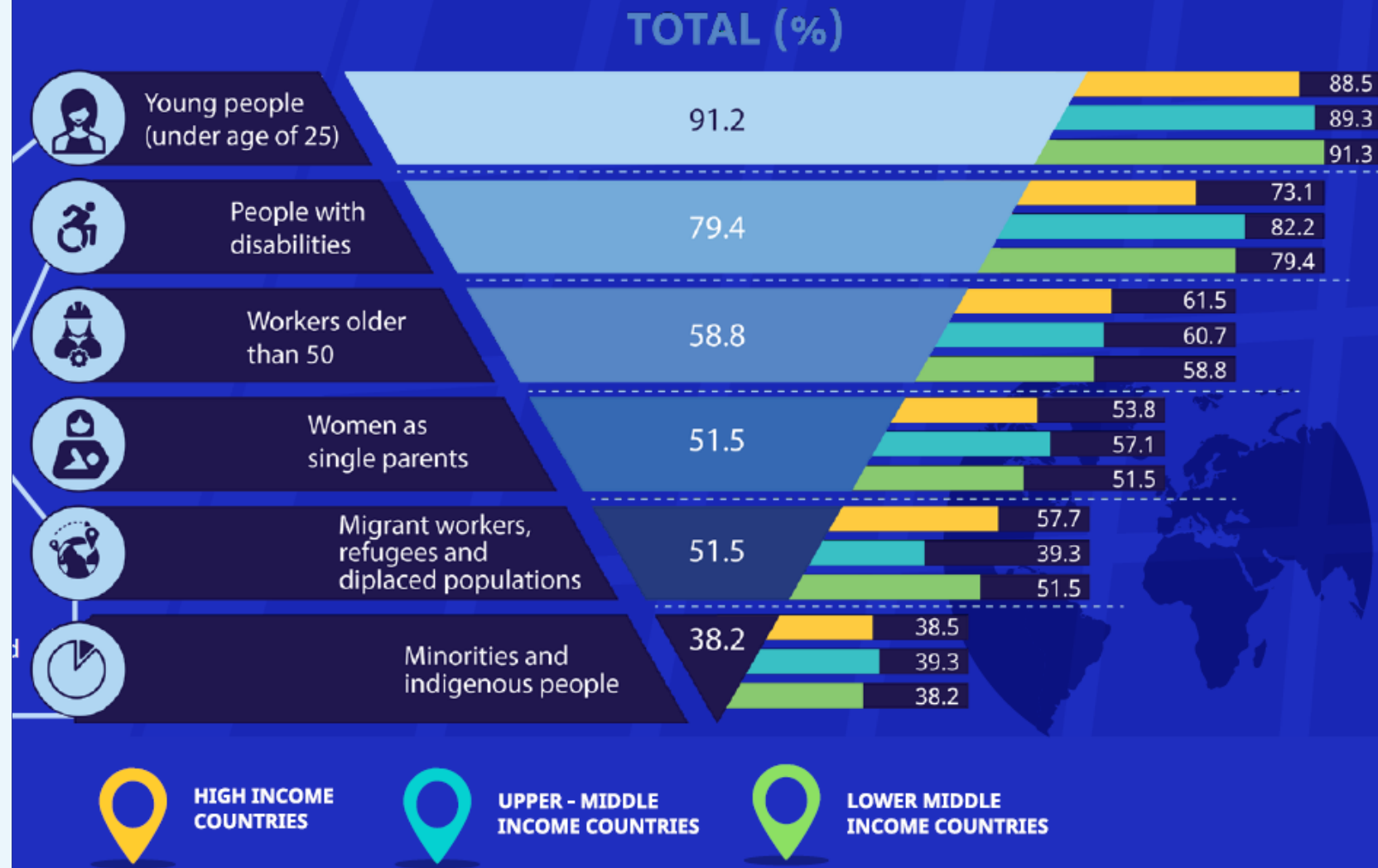
- ▶ HIC clients more likely to access proactive and tailored-made technology solutions
- ▶ LMIC clients can mostly obtain information remotely and access services supported over the phone, e-mail or SMS



Graphs by Income groups (HI, UMI, LMI+LI)

Technology as a tool for inclusion

- ▶ ...when solutions are accessible and adapted to all
- ▶ ... Still the **digital divide** makes disparities persist for some groups



**Overall, technology is a time multiplier,
especially for PES being able to address most in need clients.**



Artificial Intelligence, powered services

Algorithms capable to: **identify, classify and predict** patterns within massive amounts of data, including for **job-searching/matching**



Use is still very narrow:
one third of survey PES

AI is being introduced more rapidly in HIC; middle-income countries are catching up, still quality data is an important bottleneck

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Gaps in core capabilities



- ▶ Need to more frequently up-skill staff is the biggest challenge PES are experiencing



- ▶ Client's lack of digital skills and accessibility, i.e via 4G mobile devices



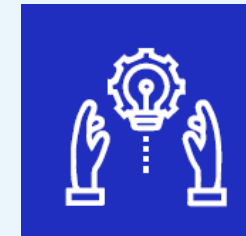
- ▶ Challenges also remain in cybersecurity, data protection and contingency plans

Preparing PES for the next era?

- ▶ Skilled-digital staff and more collaboration across providers
- ▶ AI is data hungry: non-traditional datasets for public policy-making in developing countries?
- ▶ Governance of data management: data the new “black gold”
- ▶ Building trust with clients - transparency with data practices, privacy and ownership
- ▶ Placing clients at the centre of technology transformations
- ▶ Technology adoption needs alignment with overall strategy

In advancing technological transformation

PES need sustained investment to create and maintain new capacities





International
Labour
Organization

Thank you!

Download infographics from:

<https://www.ilo.org/emppolicy/pubs/>

Contact me at: avila@ilo.org



The challenges of the PES in times of accelerated digital transformation



Mr. Michel SEBBANE

Expert commissioned by the World Bank ,
Deloitte France

ANETI's digital transformation in the 2030 vision



Mr. Fadhel BERHOUMA

Information Systems Director,
ANETI



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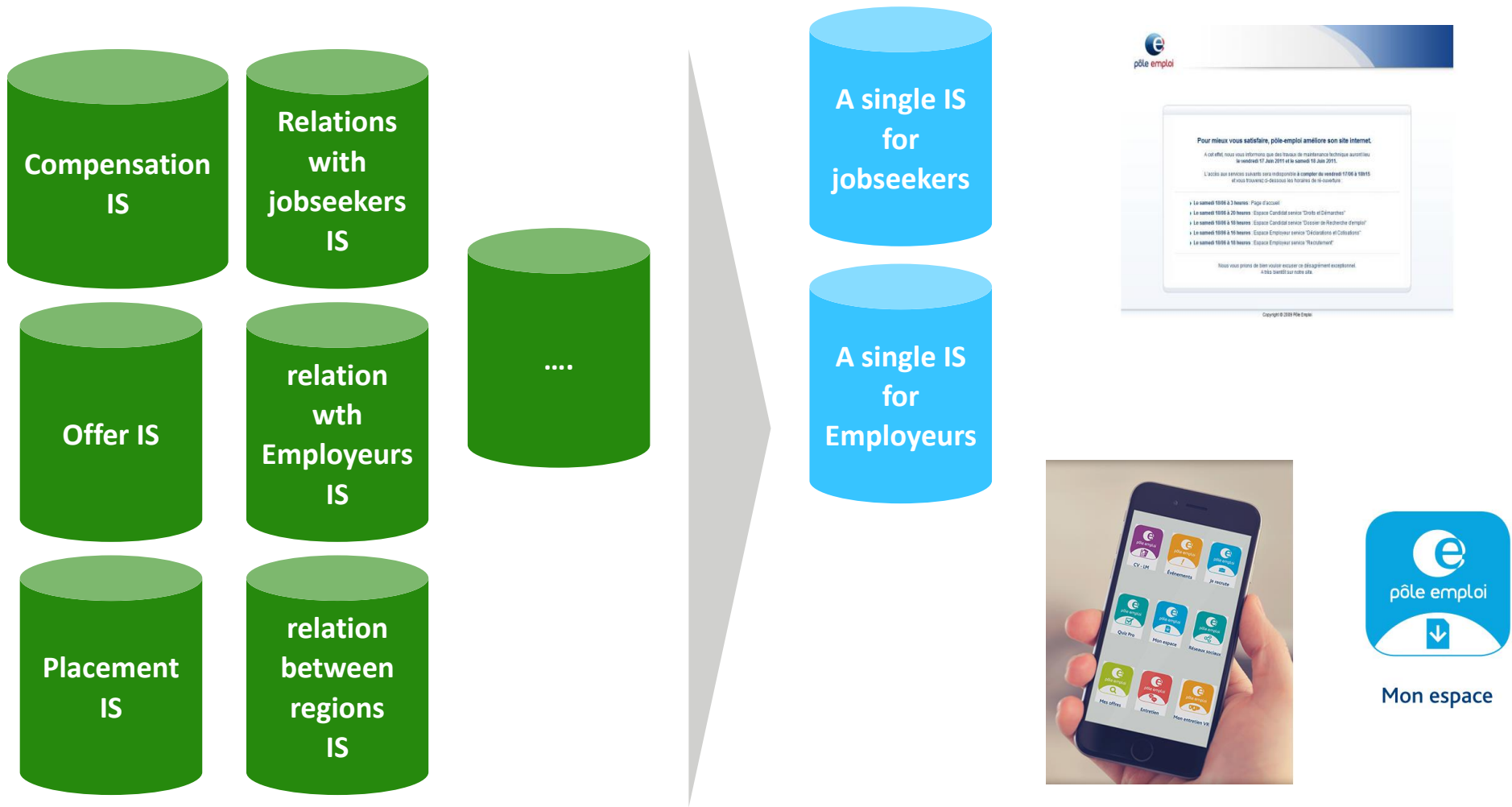


Sharing the ODS Digital employment experience in France

The creation of the single operator has boosted the digitalisation of services



Difficult cohabitation between historical IS, new services, and new distribution channels



Digital services, but for what purpose and under what conditions?

- Improvement of the quality of service
- Modernisation of the relationship with employers and jobseekers
- Historization of relationships
- Effectiveness of the services provided
- Rapid service and interactions.
- Increased added value of contacts
- Increased value in the services provided thanks to digital technology (data, AI, historisation, etc.)
- WITHOUT ...
 - Dehumanising the relationship
 - Reducing the scope of services provided
 - Limiting support to those who need it most

Create new services through digital means more than just shifting existing services to digital ones.



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Ministère de la jeunesse, des sports et de l'intégration professionnelle
Agence Nationale pour l'Emploi et le Travail Indépendant

ANETI's digital transformation



Une agence connectée

AMSEP
25/03/2021

ANETI's current information system

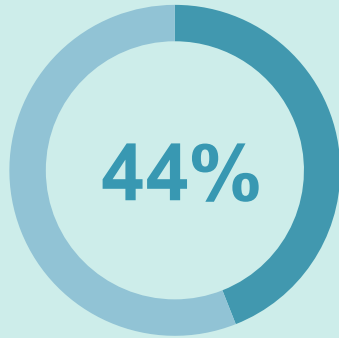


ANETI's current information system



Jobseekers

Satisfaction



are not satisfied with
ANETI' services

Use

Reported a bad user
experience

50%



4th most visited
job website

Expectations

ANETI' services are
considered inefficient

41%



Long delays in job
search

Companies

Satisfaction

Are not satisfied
with ANETI'
services

51%



3rd Public Administration
7th in terms of digitisation (*)

Use

Often resort to
ANETI's services

31%

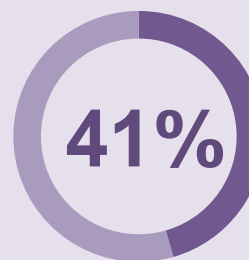


5th job posting
site

Expectations

Contacted by
employment offices (*)

54%



are not registered
on the ANETI
website

ANETI's challenges

Market dynamics

- A changing market
- New emerging skills.

HR policy

- Internal skills development
- Adapting to innovation.

Governance

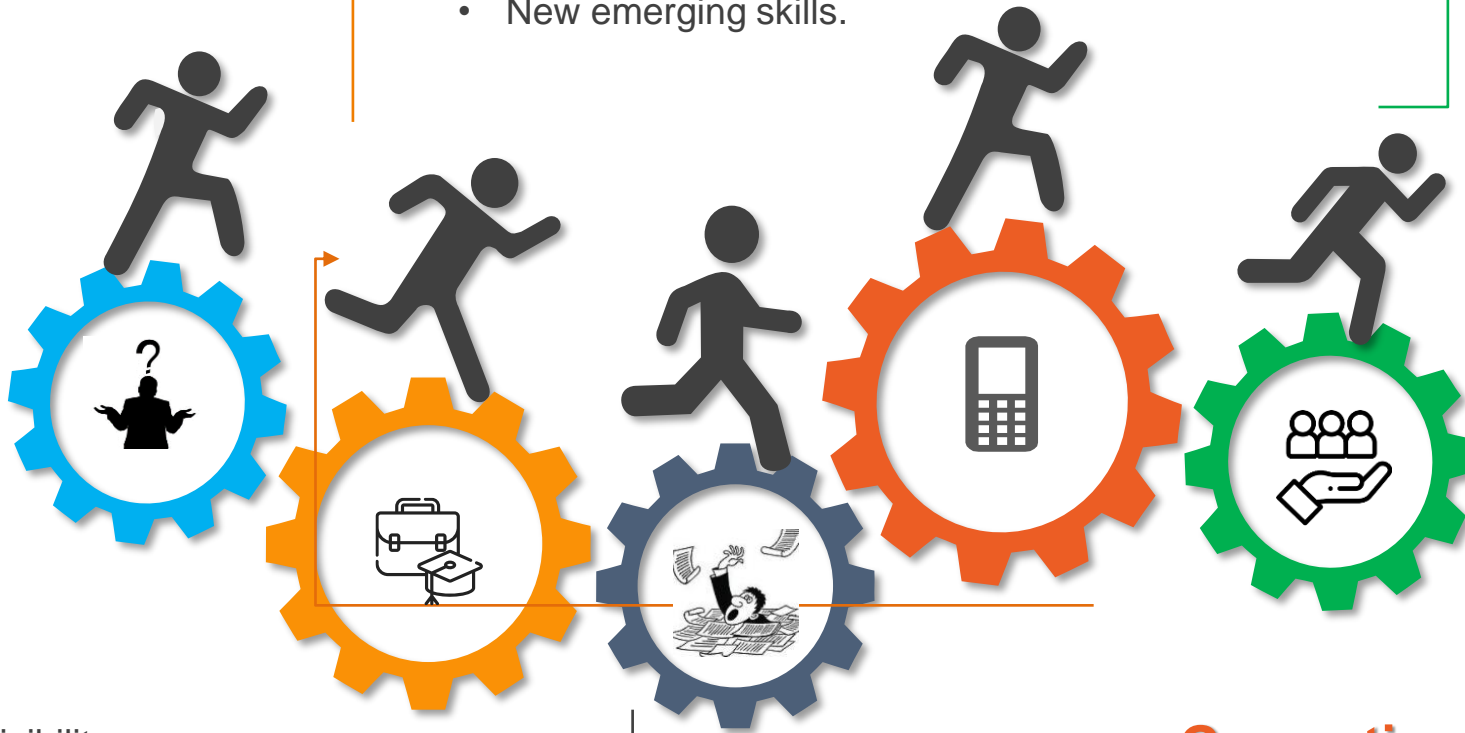
- Lack of stability and visibility
- Difficult economic and social context

Bureaucracy

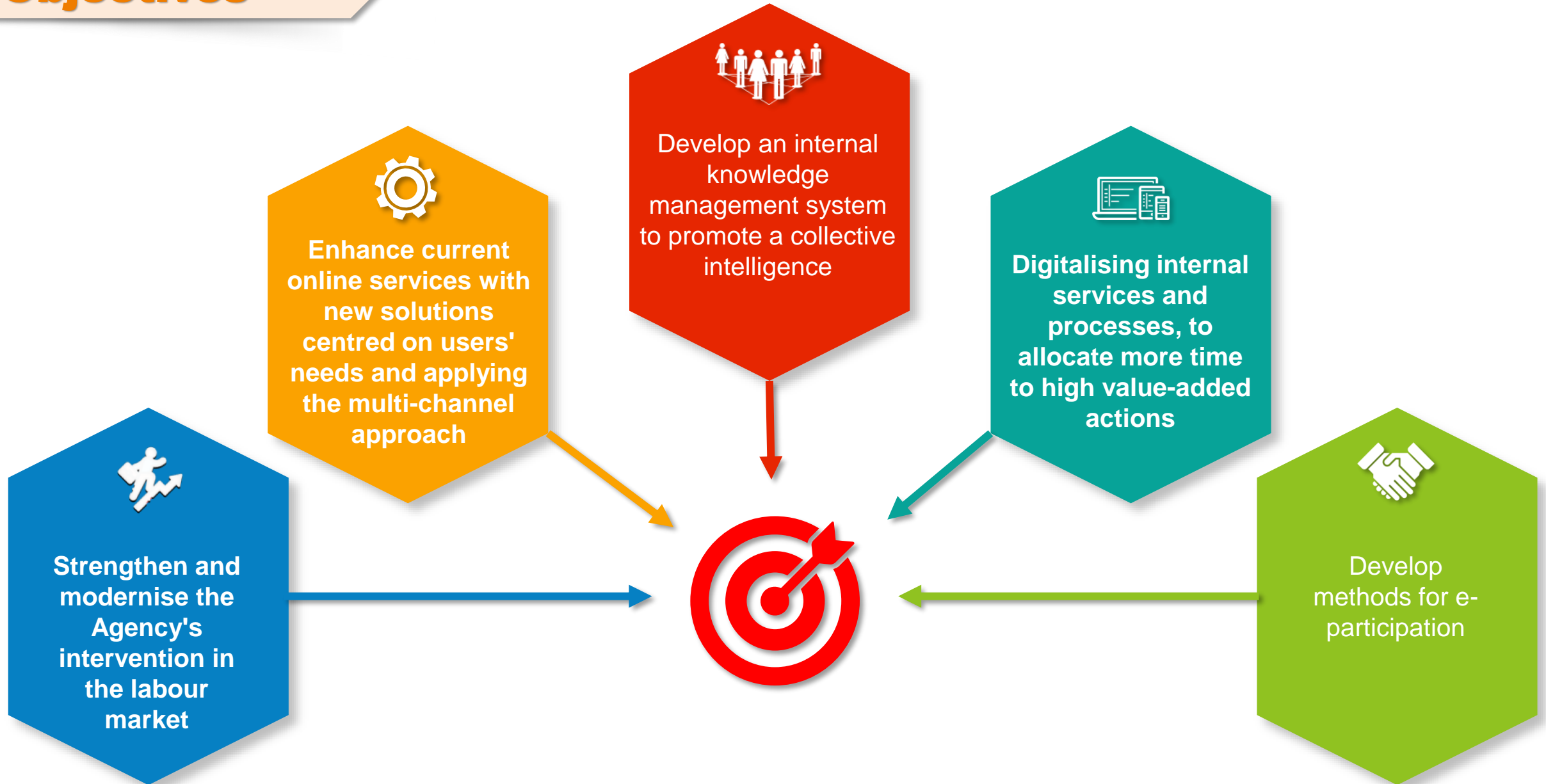
- Discouraging
- Loss of efficiency, productivity and time
- Complexity

Generation Z

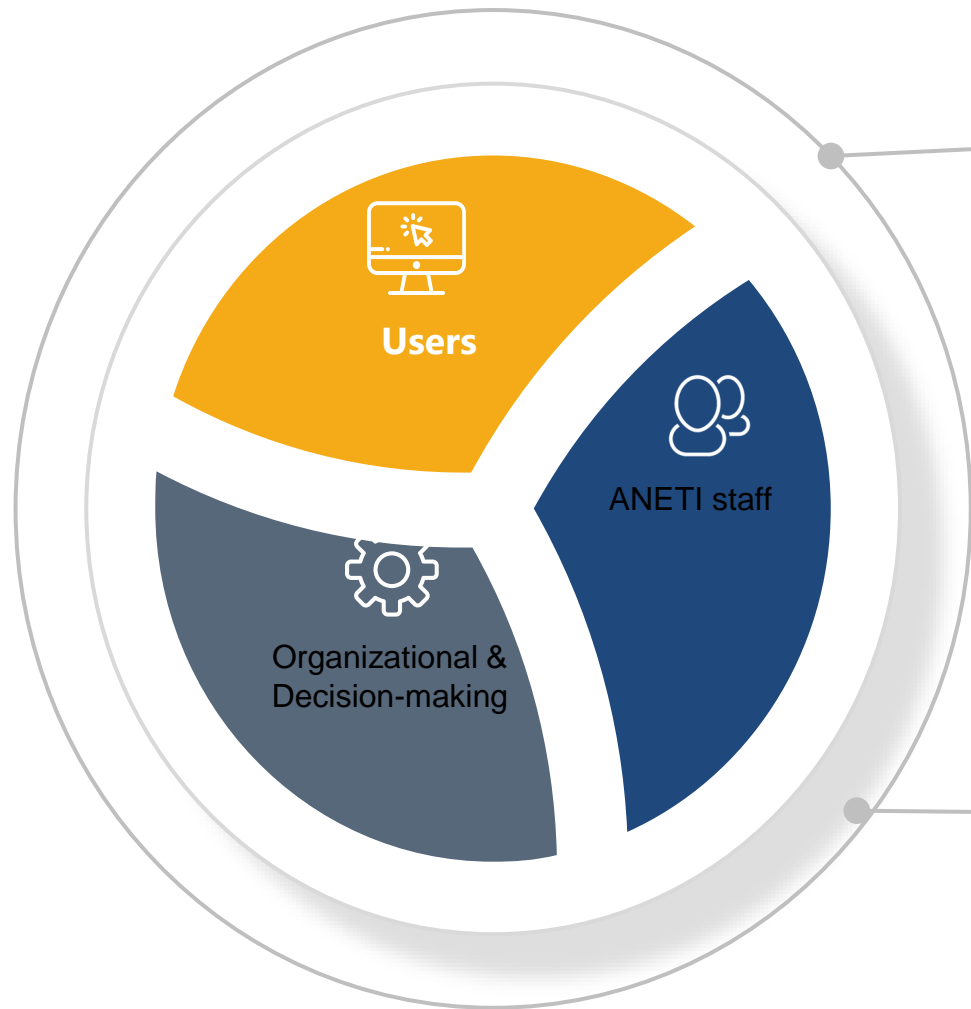
- Connected
- Born digital
- Practical



Objectives



Digitalization axes



- Jobseekers
- Companies
- Project leaders
- Associations
- Partners

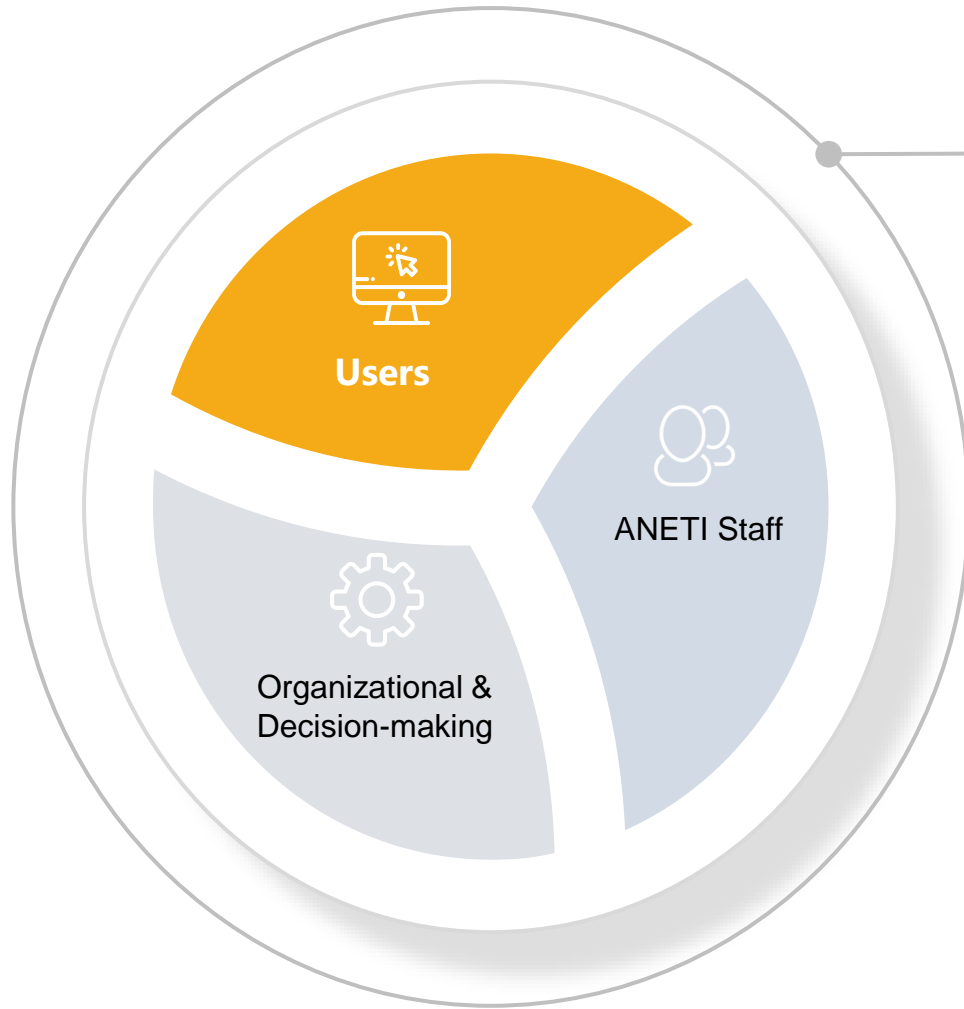


- Skills and careers
- focus on core business
- Innovation valorisation



- Process mapping
- Cost reduction
- Decision support

Digitalization axes



- **Monitoring and statistical profiling**
- **RTMC**
- **Website portal**
 - Topical sites
 - AI-based matching system
 - Skills validation system
 - E-learning
 - "E-participation & E-petition".
 - Open-DATA
 - ANETI - Expo
 - Electronic files management
 - Notification system (SMS, mailing,...)
 - Chat box
- **Mobile applications**
- **Job fairs**

Matching system



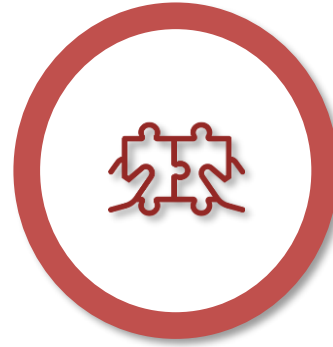
Needs identification

- > Identification of the job seeker's profile (education and training, assessment, CV, professional and extra-professional experience,...)
- > Identification of recruitment requirements



Search

- > Semantic search
- > Multi-criteria search
- > Search by keywords or tags



Matching

- > Crossing of variables into input data's
- > Specification of the selection criteria (removal, bonus,...)
- > Variables measurement
- > Shortlisting / Scoring



Gap analysis

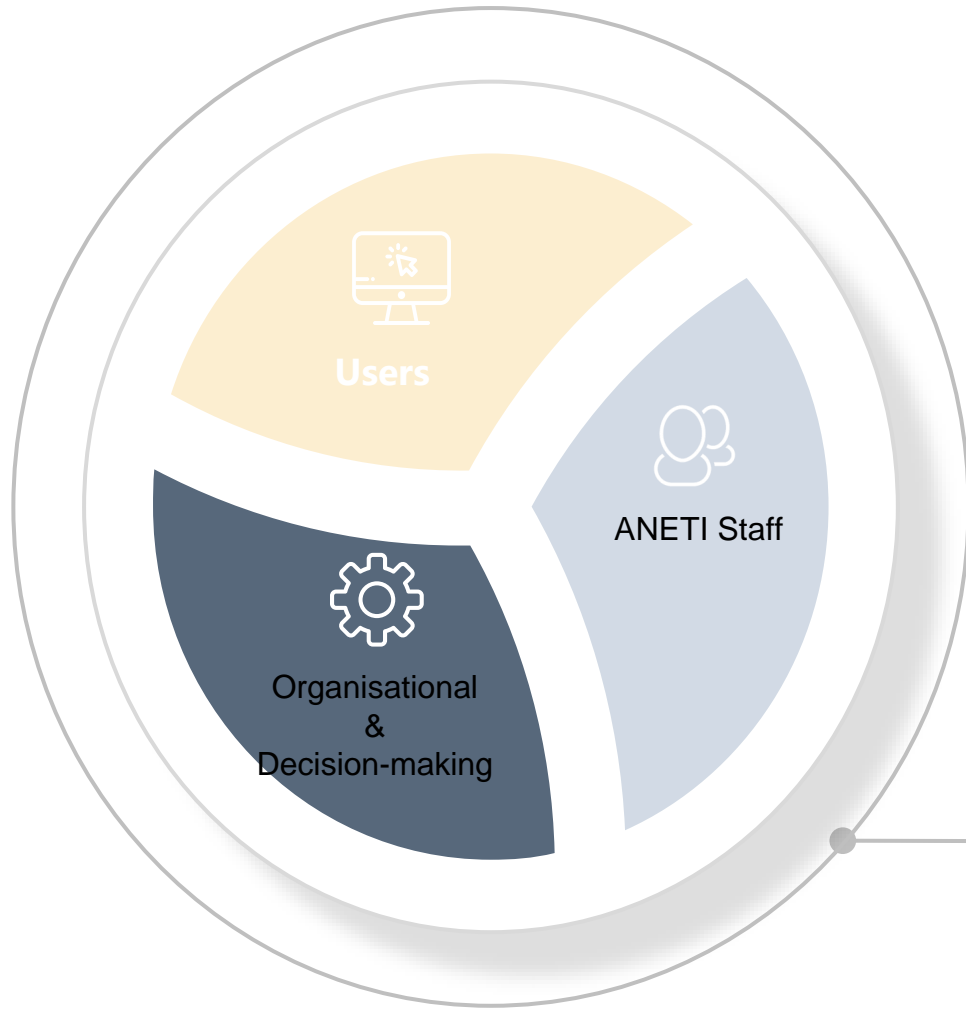
- > Gap analysis report
- > Suggestions for training and action plans to improve the employability of the jobseeker
- > Dashboards (skills gap, related professions, most requested qualifications)

Digitalization axes



- Internal skills and career management system
- **Digital Workplace:**
 - WikiEmployment : Knowledge base
 - Best practice capitalisation platform
 - Internal skills bank
 - Participatory innovation platform
 - Corporate social network
 - Digital library
- **E-learning platform**
- **Innovation Lab**
- **System for managing and monitoring requests and complaints**

Digitalization axes



- Functional mapping of processes
- Dematerialisation
- Decision making support system
- Virtual job agency

Partners



Thank you
For your attention



***Applying an automated
tool for impact
evaluation of active
labour market measures
– Estonian experience***



Ms. Mari VALI

Advisor, Development Department-
Estonian Unemployment Insurance Fund,
Töötukasa

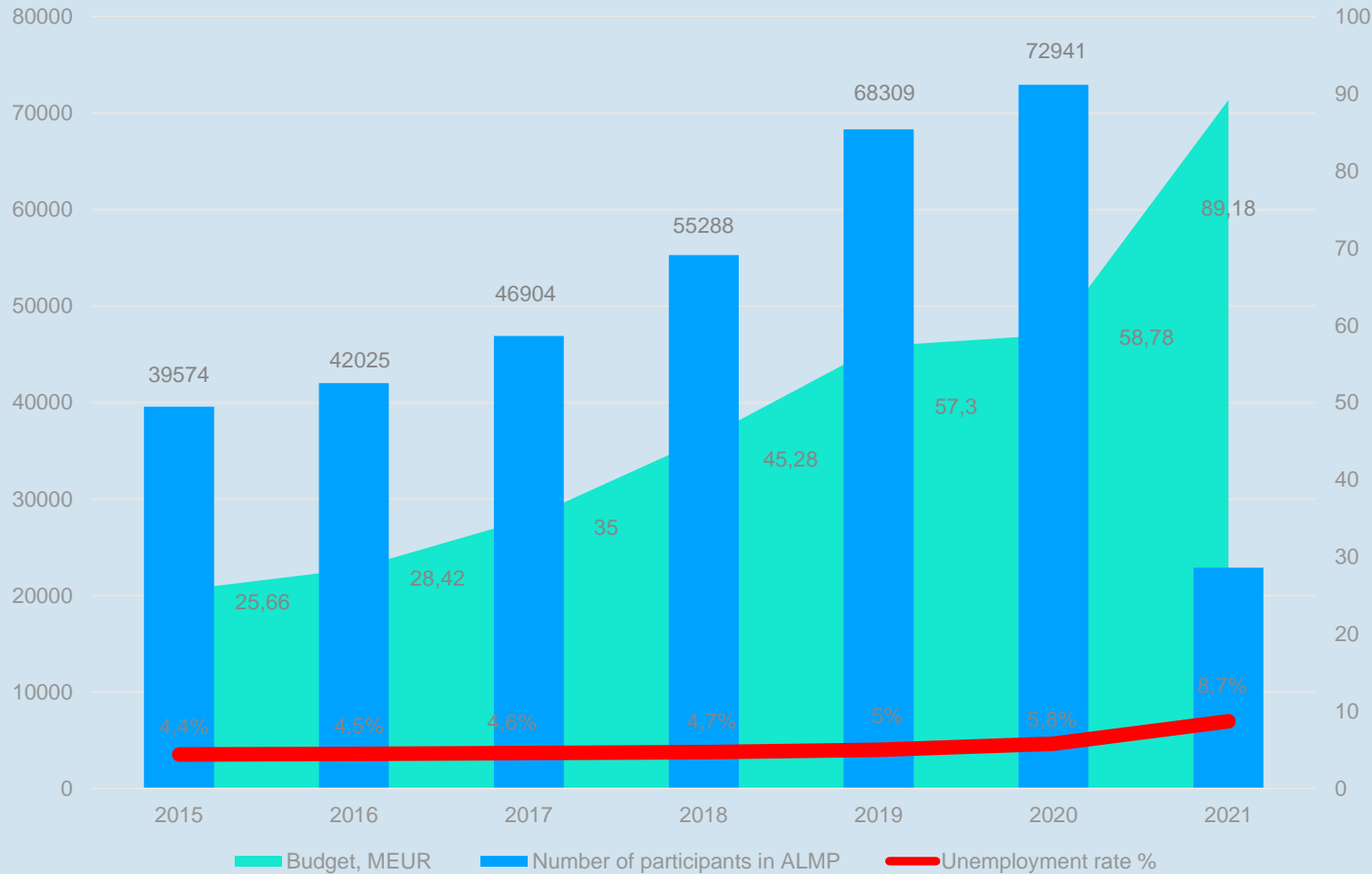


Applying an automated tool for impact evaluation of active labour market measures – Estonian experience

Mari Väli
March 25th 2021

The purpose of the tool

ALMP in Estonia in 2015-2021*



EUIF spends increasing amounts on active labour market measures, but so far we haven't assessed the impact of these measures systematically

Inevitable preconditions:

- **Availability of detailed data** in a well-accessible format – both for the unemployed and the employed
data warehouse, overall infrastructure for data exchange
- In-depth **analytical competence**
in-house or outsourced
- **Technical preparedness**
dedicated infrastructure for impact assessment tool
- **Demand** by service „owners“
The people responsible for service development and service provision

The methodology

The impact assessment tool uses **propensity score matching** and exact matching combined with regression adjustment to evaluate the effects of labour market programmes.

In other words we compare the participants in ALMPs with similar persons who didn't participate and assess the outcomes showing the effects of specific labour market services on the probability of being employed and on wages 1 to 24 months after participating in the labour market service.

**Work
practice**

**Wage
subsidy**

Labour market training

- general skills
- Estonian language
- ICT
- vocational training

**Work
rehabilitation**

ALMPs

**Work
practice**

**Wage
subsidy**

Labour market training

- general skills
- Estonian language
- ICT
- vocational training

**Work
rehabilitatio
n**

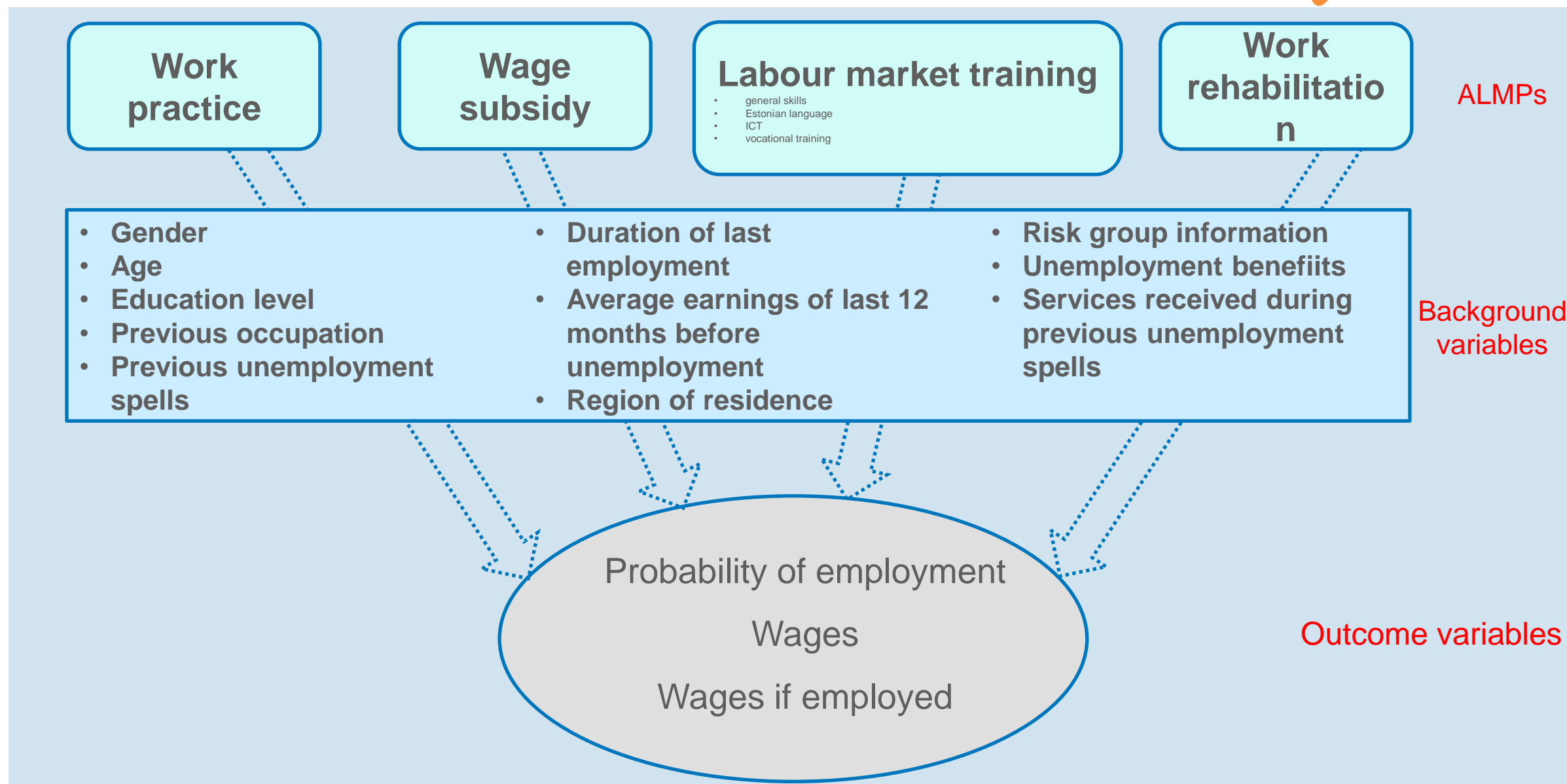
ALMPs

- Gender
- Age
- Education level
- Previous occupation
- Previous unemployment spells

- Duration of last employment
- Average earnings of last 12 months before unemployment
- Region of residence

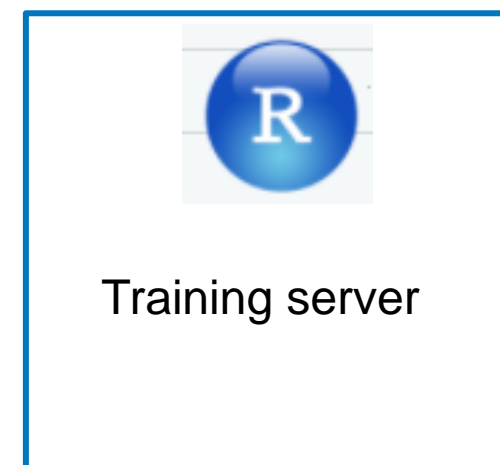
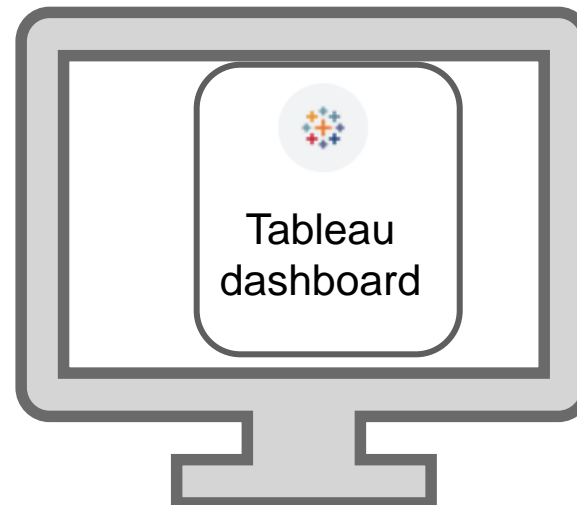
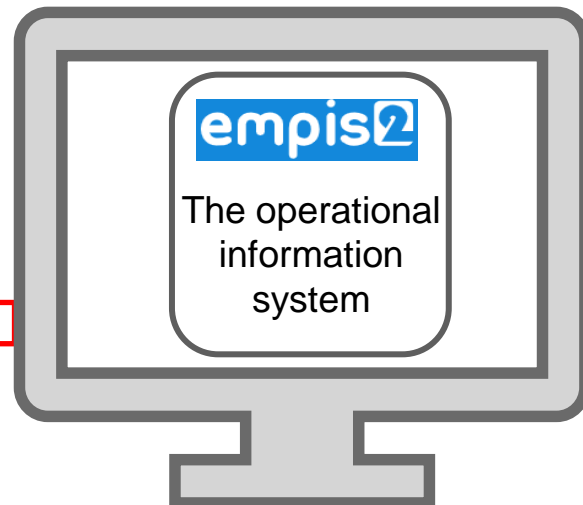
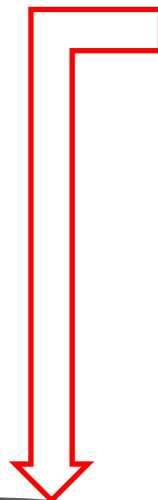
- Risk group information
- Unemployment benefits
- Services received during previous unemployment spells

**Background
variables**



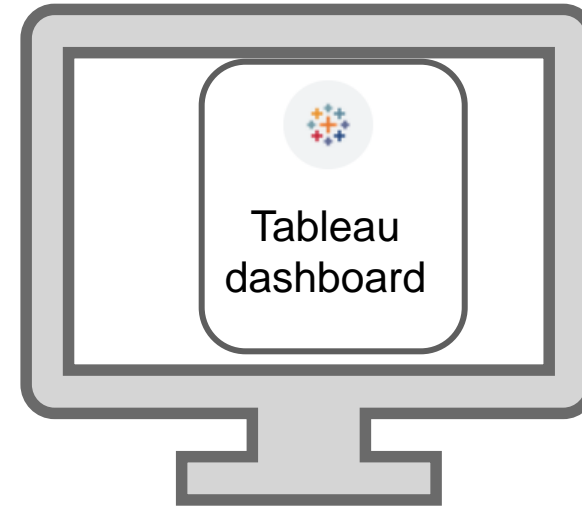
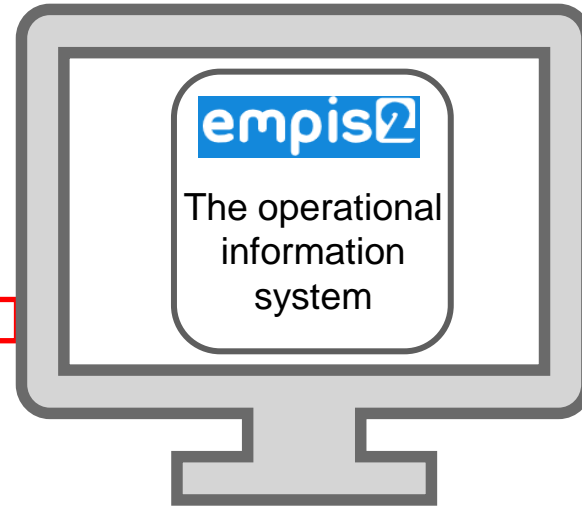
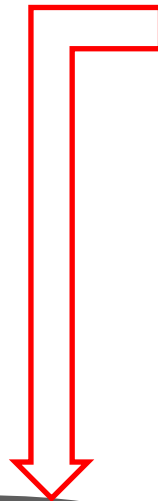
The data flow

1. Data about clients and services

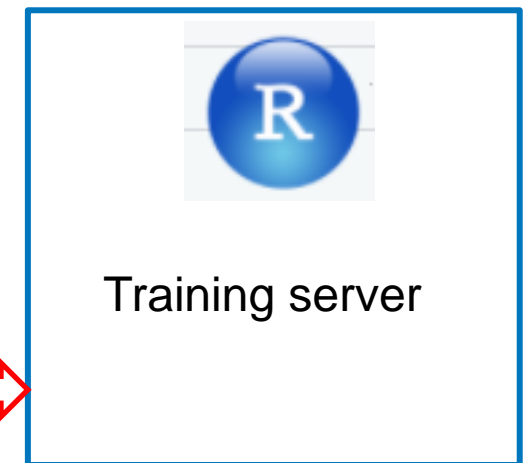
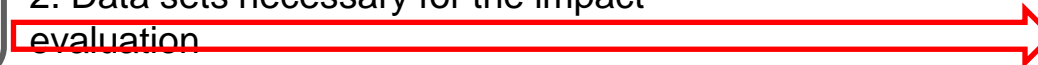


The data flow

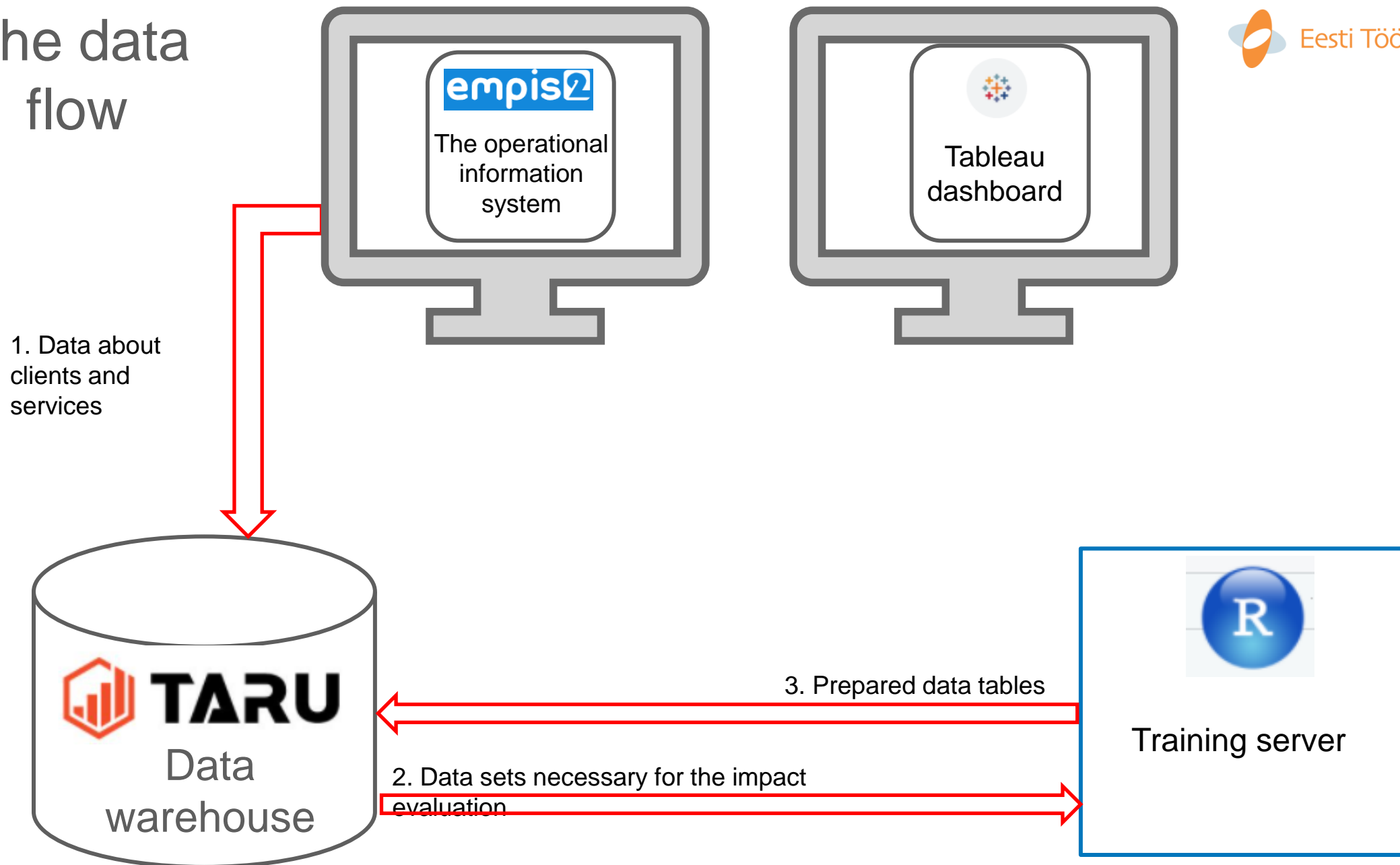
1. Data about clients and services



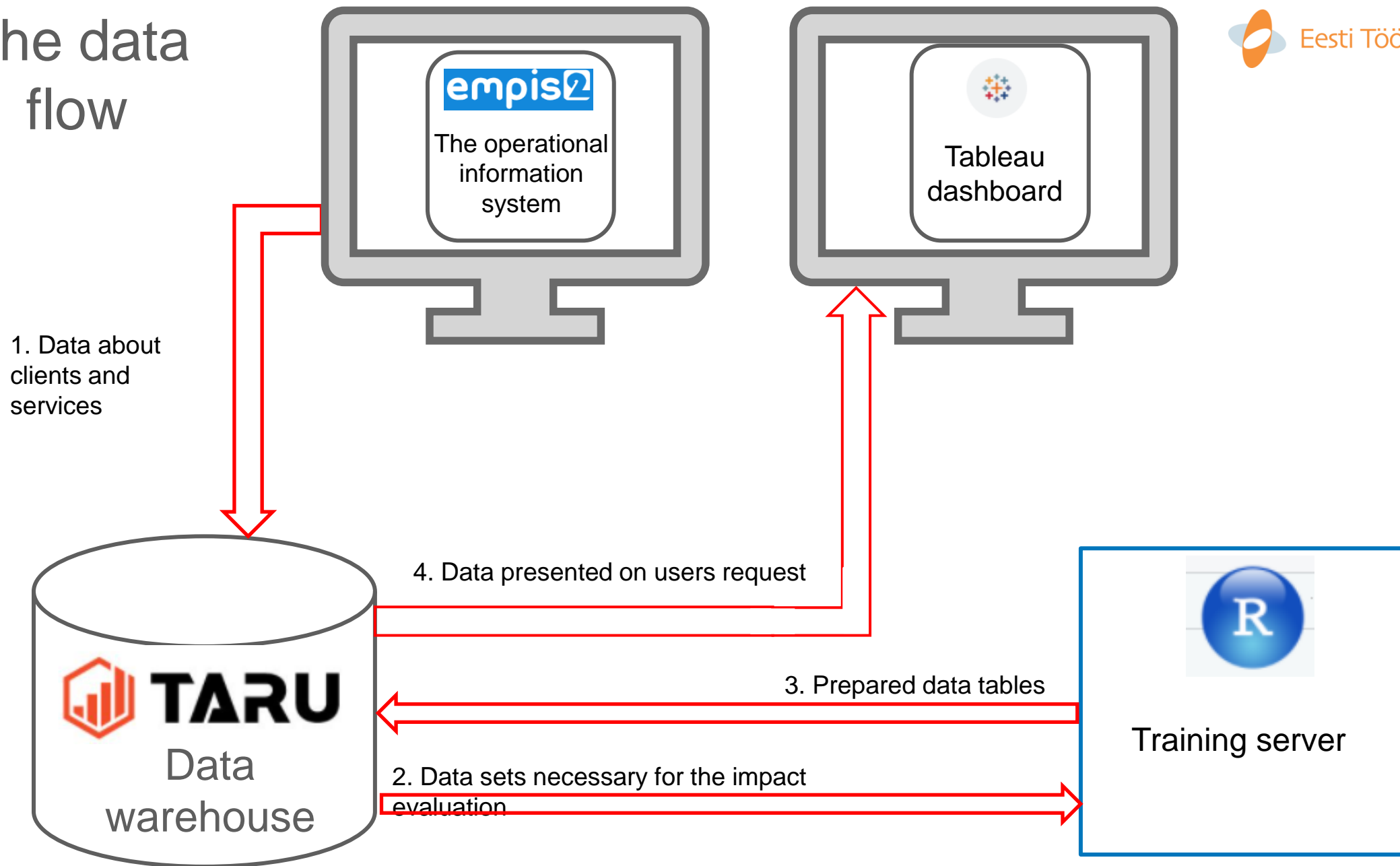
2. Data sets necessary for the impact evaluation



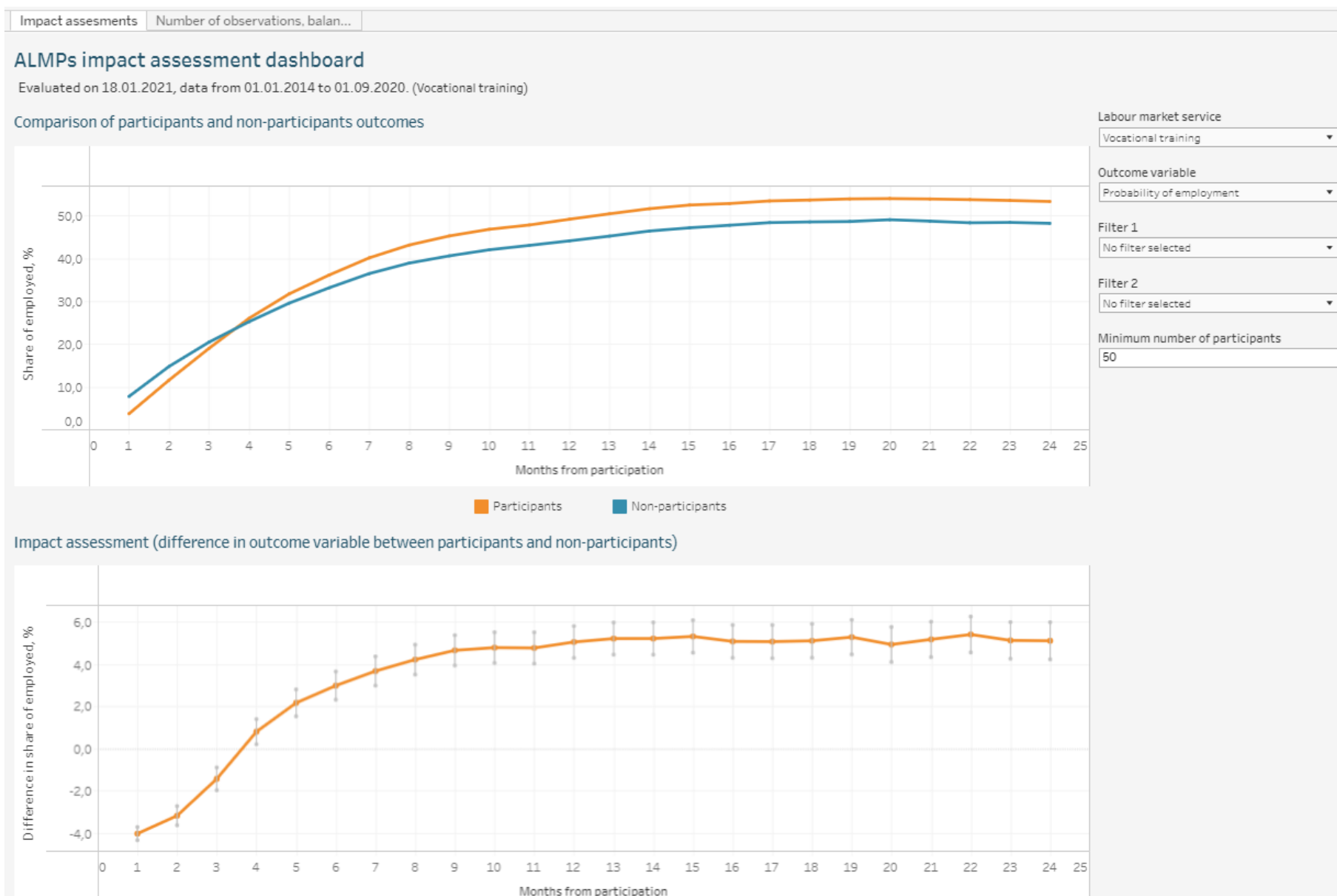
The data flow



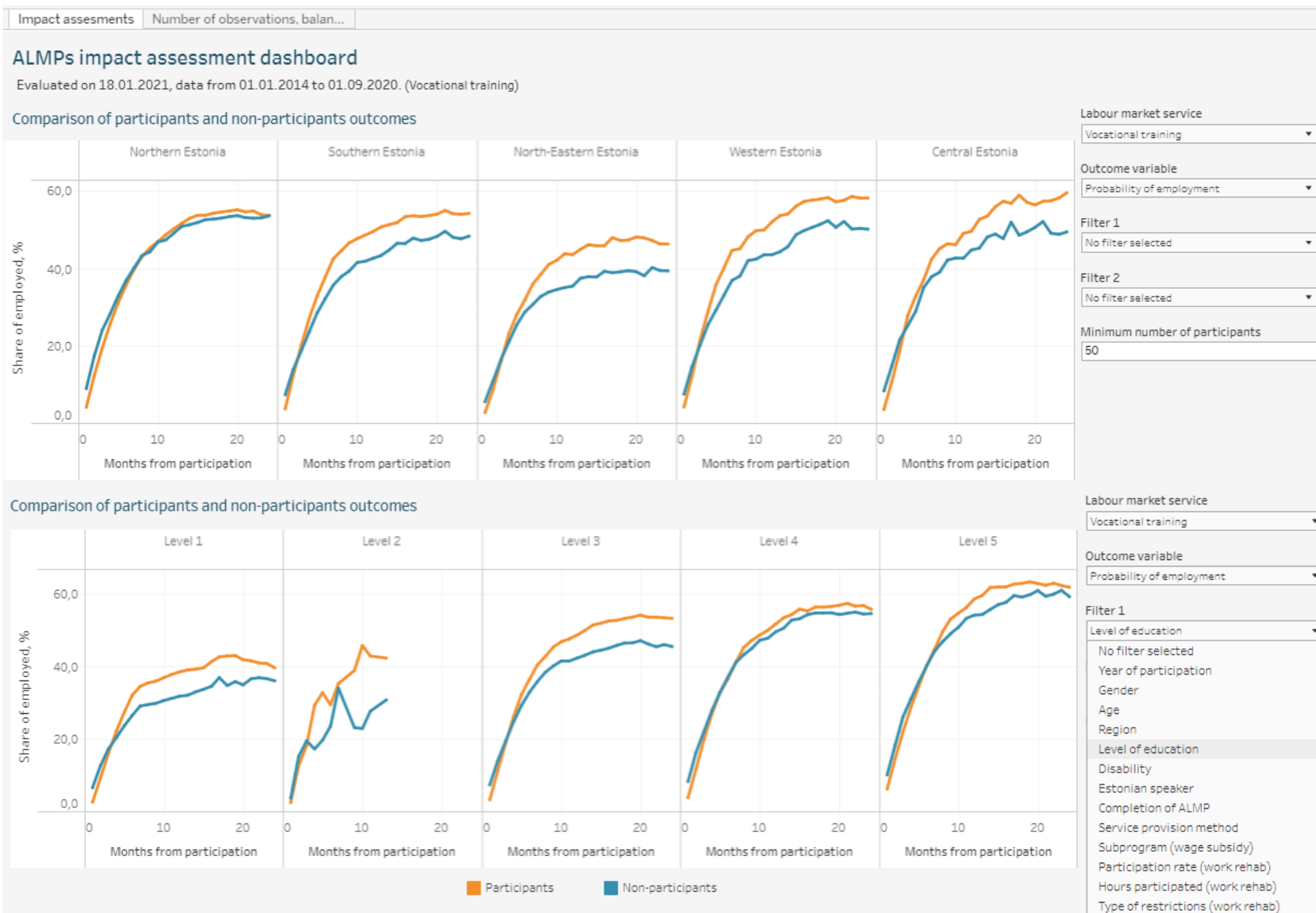
The data flow



An example of the dashboard



An example of the dashboard



Limitations

- Due to small absolute numbers of participants, it is not possible to go into details
- Counsellors expectations to get personalised suggestions about suitable labour market services to their clients can not be met

Next steps

- Adopting the impact assessment tool to the business processes
- Regular updating of data
- Additional ALMPs impact to be assessed
- Automated cost-benefit analysis of ALMPs
- Adjustments made to targetting and provision of ALMPs based on outcomes



Eesti Töötukassa

Thank you!

mari.vali@tootukassa.ee



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Questions & Answers



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The challenges of the PES in times of accelerated digital transformation



Closing remarks



Mr Abdelmounime EL MADANI

President of WAPES and Director General of ANAPEC

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