NADINE Technical Solutions in integrating migrants – A real life approach –

ICT for migrant inclusion in the EU

The European Week of Regions and Cities

October 6, 2020

Speaker: Nicholas Vretos, PhD

Actually what is happening in the twenty-first century, this is the great century of migration, so we have people from all around the globe going all over the place, and they have to integrate into a society, that society that exists has to integrate with them. Both sides have to work at it. It's not a one-way thing.

Roma Tearne
Sri Lankan-born artist and writer

NADINE vision

‣ NADINE project aim is to develop a novel way of **integrating** migrants and refugees through ICT-enabled solutions that will automatically **adapt to the specificities of each person**. The main idea behind the NADINE project is that the primordial enabler of migrants' inclusion, in host societies, is their **ability to work**.

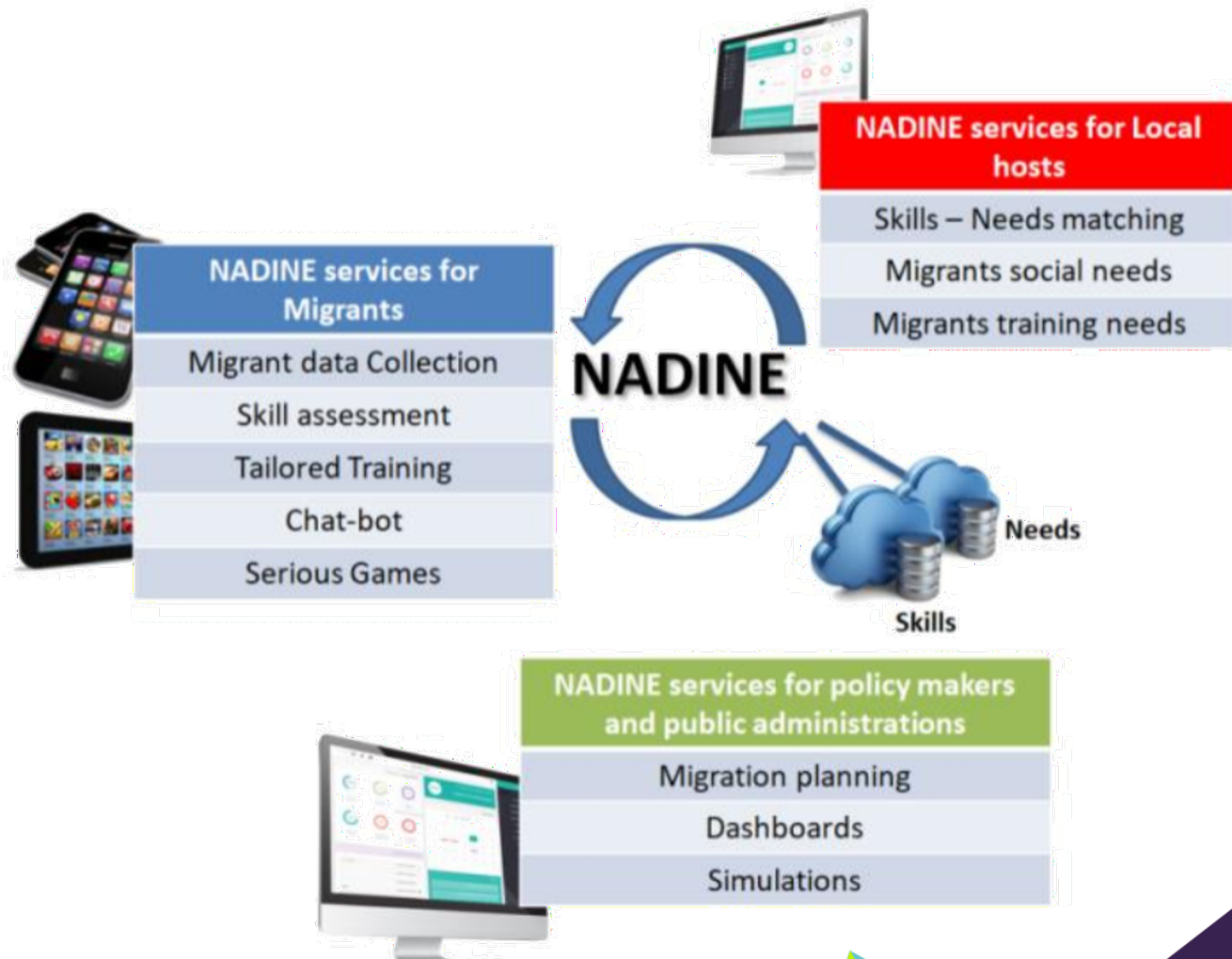# NADINE platform

NADINE created an adaptable platform able to:

1) Provide functionalities for **skill assessment** (both hard and soft),

2) dynamically create **tailored suited training programs** to adapt existing skills into **host societies needed skills** (skills shifting)

3) provide a digital companion that will **suggest and assist the end-users** through administrative tasks and

4) create a **data lake** available to public administration bodies for better organization.

NADINE integration approach
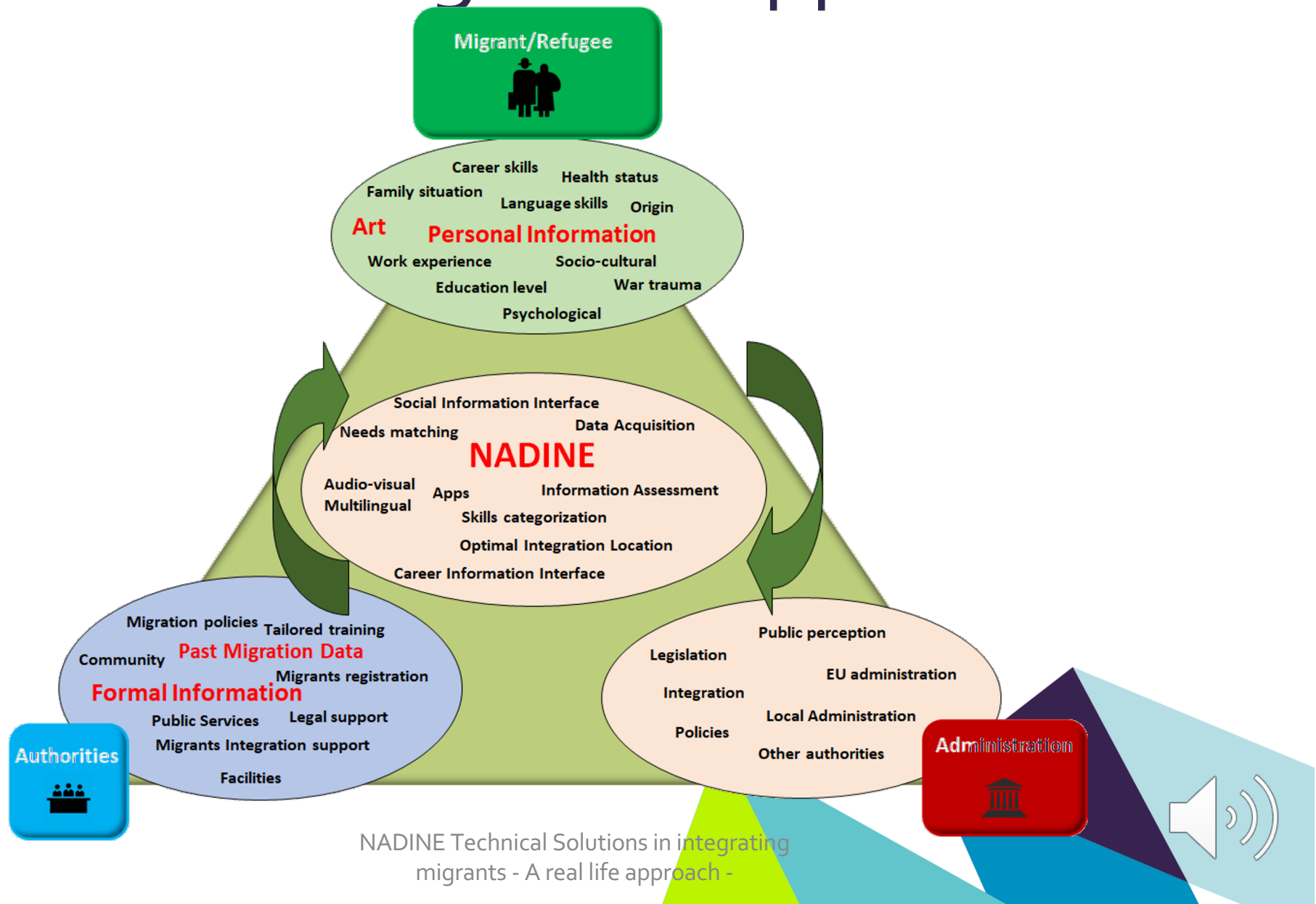
NADINE Technical Solutions in integrating migrants - A real life approach -

NADINE services

NADINE services for Migrants
- Migrant data Collection
- Skill assessment
- Tailored Training
- Chat-bot
- Serious Games

NADINE

NADINE services for Local hosts
- Skills – Needs matching
- Migrants social needs
- Migrants training needs

Needs

Skills

NADINE services for policy makers and public administrations
- Migration planning
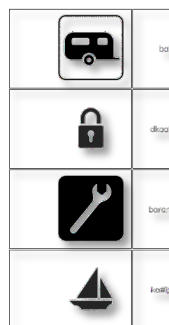- Dashboards
- Simulations

NADINE solutions for better migrant skill assessment

Provide customized ways to **assess personal characteristics and skills** of migrants in order to facilitate the adaptation process through creative activities, the ability to adapt, to change, and as a therapeutic tool to address migration trauma in one's personal development.
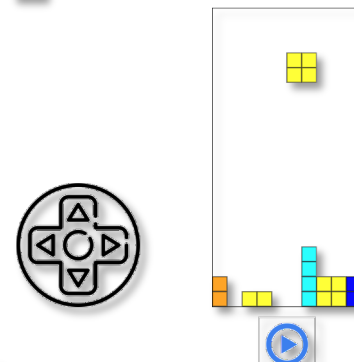
Assess skills which are important and useful for your care

Skills

Skills assessed by NADINE Questionnaire

Score

- Interpersonal skills
- Social interaction/ communication
- Leadership
- Team working
- Intercultural competence
- Coping with authority
- conscientiousness
- Extraversion
- Organisational skills
- Work efficiency
- Time management
- Independent work
- Organisation
- Personal skills
- Adaptability
- Reliability
- Willingness to learn
- Stress tolerance
- Entrepreneurial skills
- Creativity
- Managerial skills
- Initiative
- Risk tolerance
- Cognitive/Analytical skills
- Observation
- Decision Making
- Problem Solving
- Numeracy
- Mechanical skills
- ICT skills
- Technical skills
- Dexterity
- Spatial Ability
- Accuracy
- Language learning aptitude

0 1 2 3 4 5 6 7 8 9 10

Look at the following examples.

There is a list of 4 paired figures and words you have to memorize.

🚐	bol
🔒	dikaal
🔧	baran
⛵	kaslij

After having memorized the previous pairs, go to the next table, to choose the right answer, that is to say the correct word for each figure
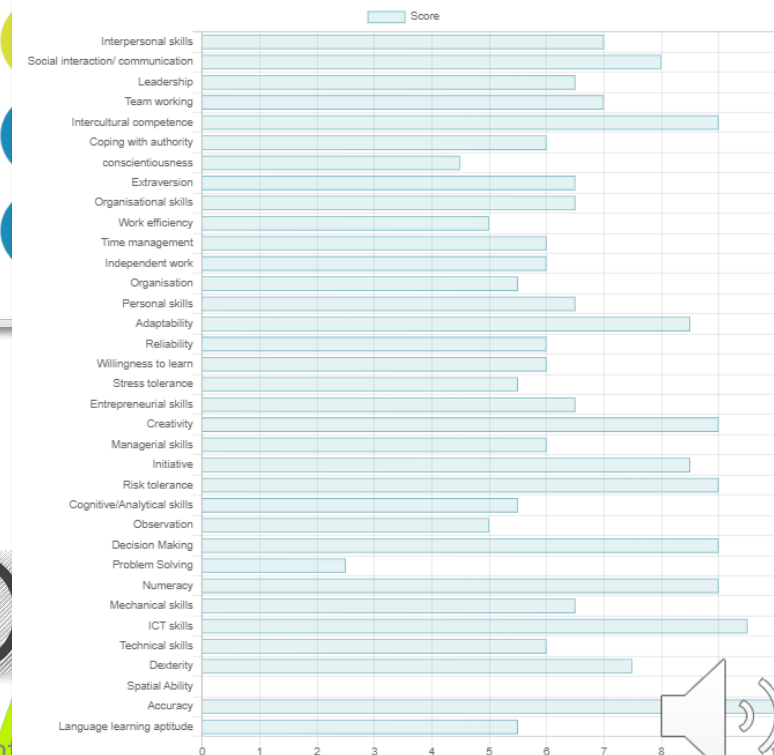
Tetris for Skill Assessment
READY

NADINE Technical Solutions in int
migrants - A real life approach -

NADINE solutions for improved migrant portfoli

NADINE will be equipped with methods for **collecting** all the required **migrant data** and it will be supported by intelligent decision support tools, required to identify the optimal integration location

Vassilis Solachidis

Personal data

Name
Vassilis

Gender
male

Surname
Solachidis

Origin country
Italia

Age

Contact data

Phone
12345678901

Street address
Mona

Mother tongue
Persian

City
Mona

Postal code
11111

💼 COMPANY DETAILS

Period
03/2017
07/2017

Position - Type: **Builder - Mplokaki**
Employer: **CERTS**
ACTIVITIES AND EVIDENCE: Builder - Video

☷ **Syria** - 🌐 **Damaskus**

🎓 Education

Period
01/2012
01/2016

Title: **Bachelors in Mathematics**
Years of study: **Bullet 1**
Organisation: **University of Damascus**

☷ **Syria** - 🌐 **Damascus**

NADINE solutions for language barriers overcoming

Include easy to use **audiovisual multilingual interfaces and apps**, in order to support migrants' access to a variety of different integration opportunities public services and processes according to their needs.
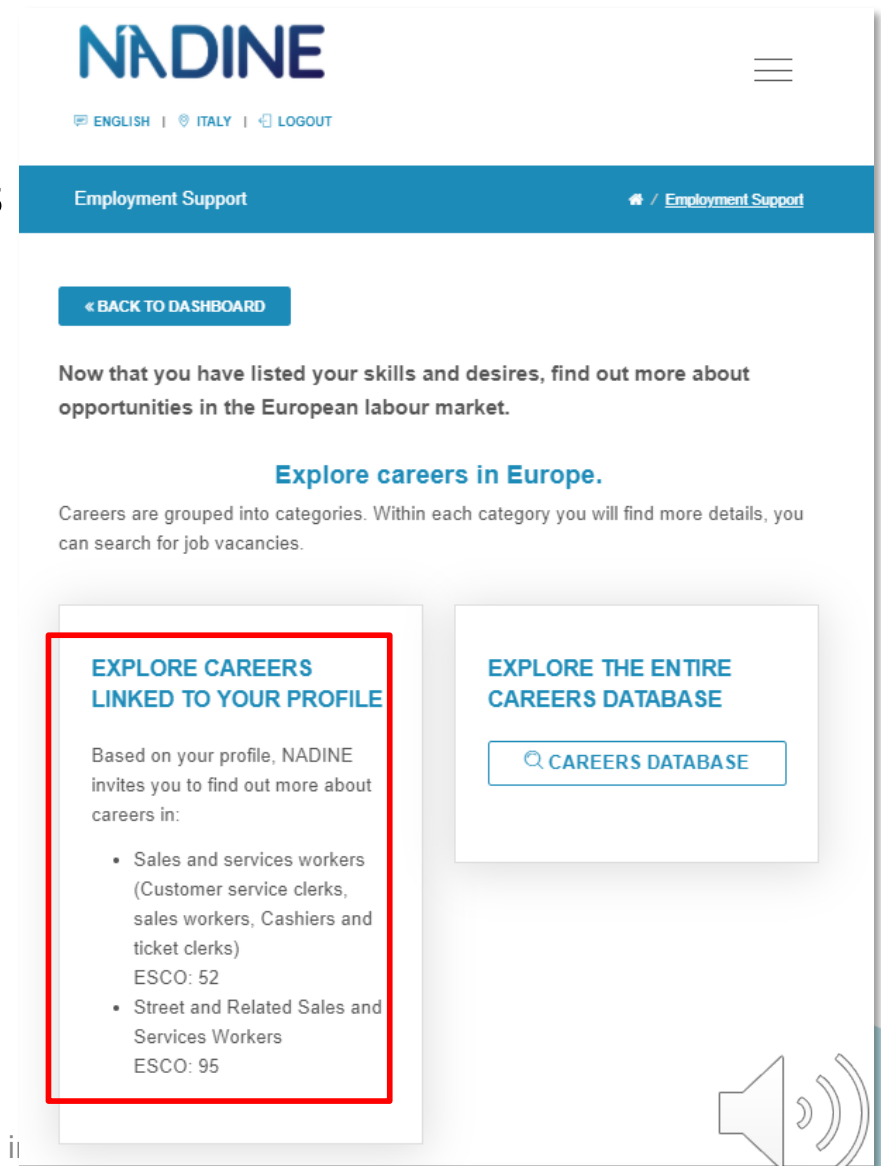

NADINE

A platform to promote migrants' inclusion

Select language
Sélectionner une langue
Selecciona tu idioma
ΕΠΙΛΟΓΗ ΓΛΩΣΣΑΣ
اختر اللغة
انتخاب زبان

ENGLISH	ΕΛΛΗΝΙΚΆ
FRANÇAIS	العربية
ESPAÑOL	نام زبان اصلی
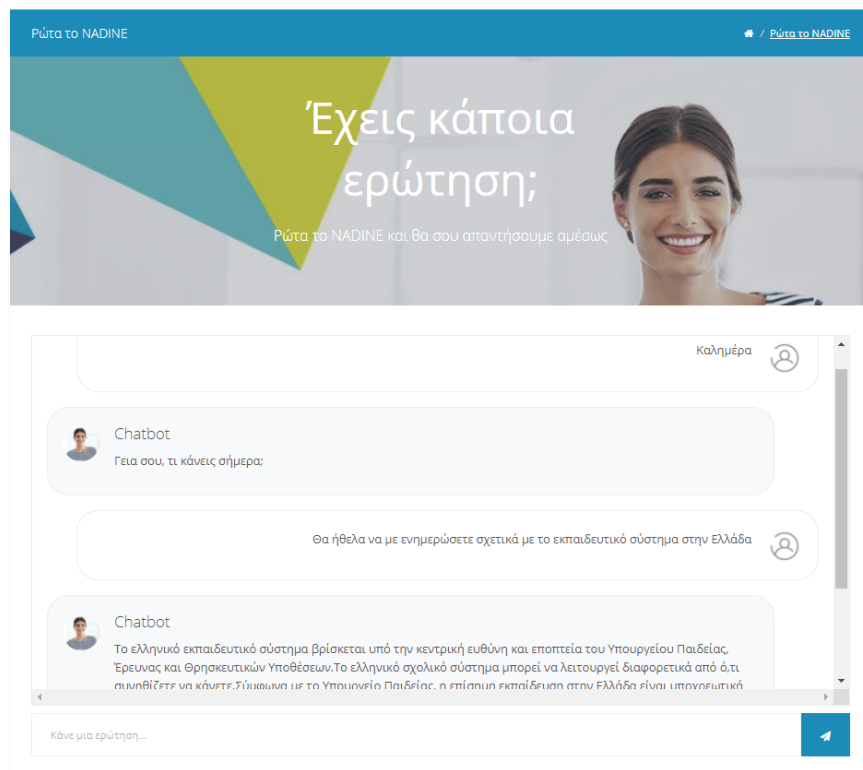
NADINE solutions for optimal career guidance

▸ NADINE will be equipped with methods for <u>collecting all the required migrant data</u> and it will be supported by <u>intelligent decision support tools</u>, required to identify the <u>optimal integration location</u> and <u>provide career pathways</u>.

NADINE solutions for learning the language of the new country

▶ NADINE provides **language training** though a mobile/tablet app.

▶ Also, it introduces the migrant to a **mainstream language related to a determined profession** through a serious games. These games will help them to understand the progression perspectives by oral and written emphases of her/his mistakes through adapted feedbacks that will rely on cutting-edge machine learning and artificial intelligence technologies.

NADINE solutions for better management of migrant arriving population

▶ Review the skills of a migrant group
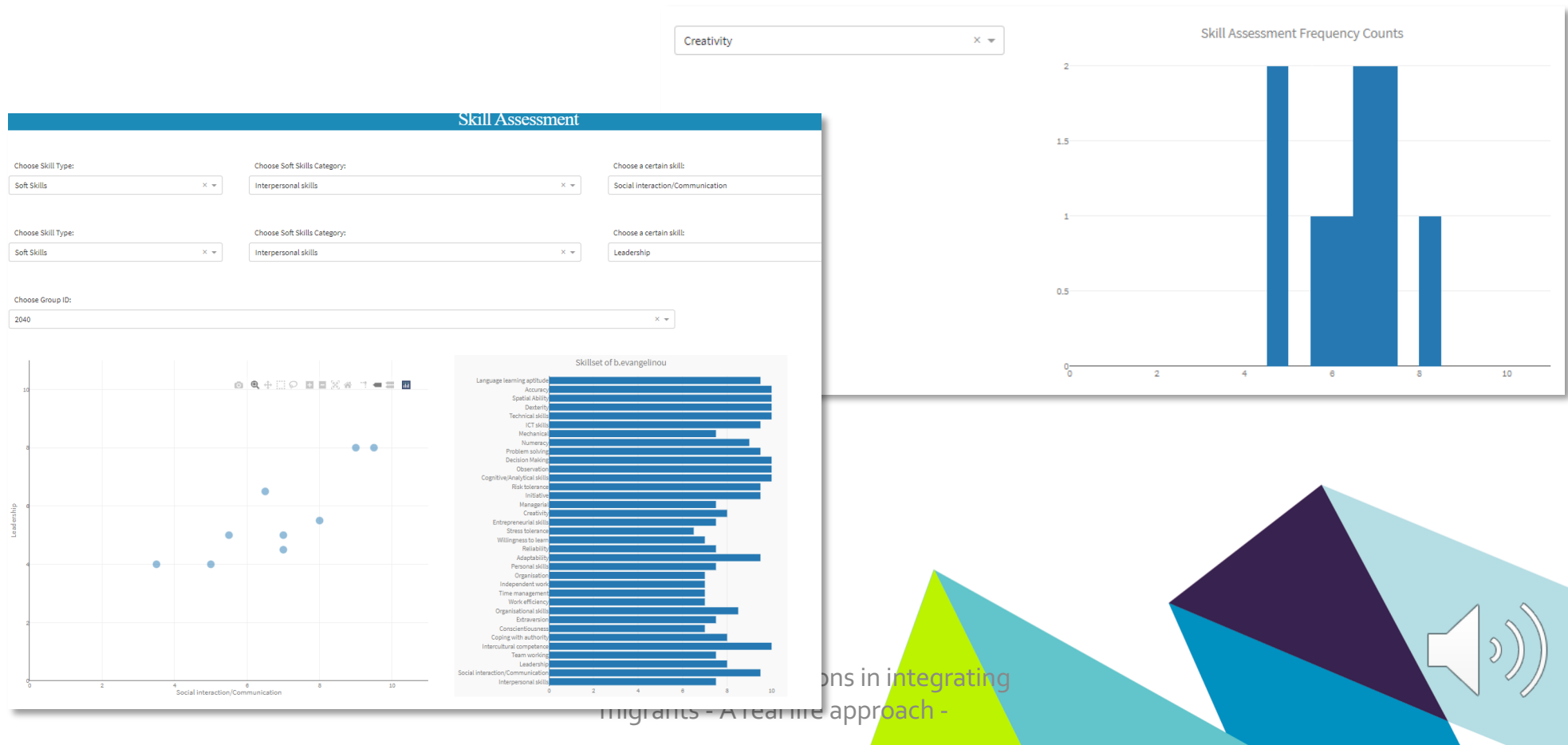
NADINE solutions to better prepare migrants for the labour market

▶ Review the suggested trainings of a migrant group

NADINE solutions to better shape infrastructures towards boosting prosperity

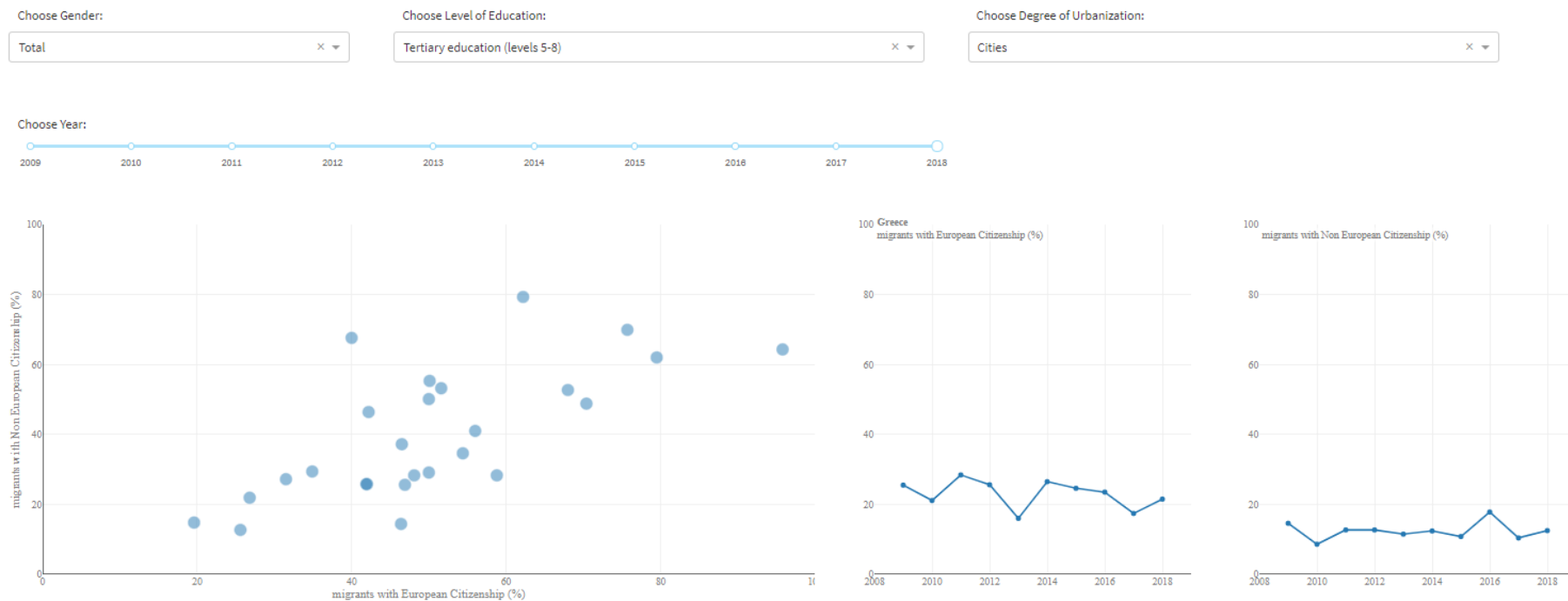▸ Access the host infrastructures based on the migrants needs

Choose a City:

PARIS

Social Needs
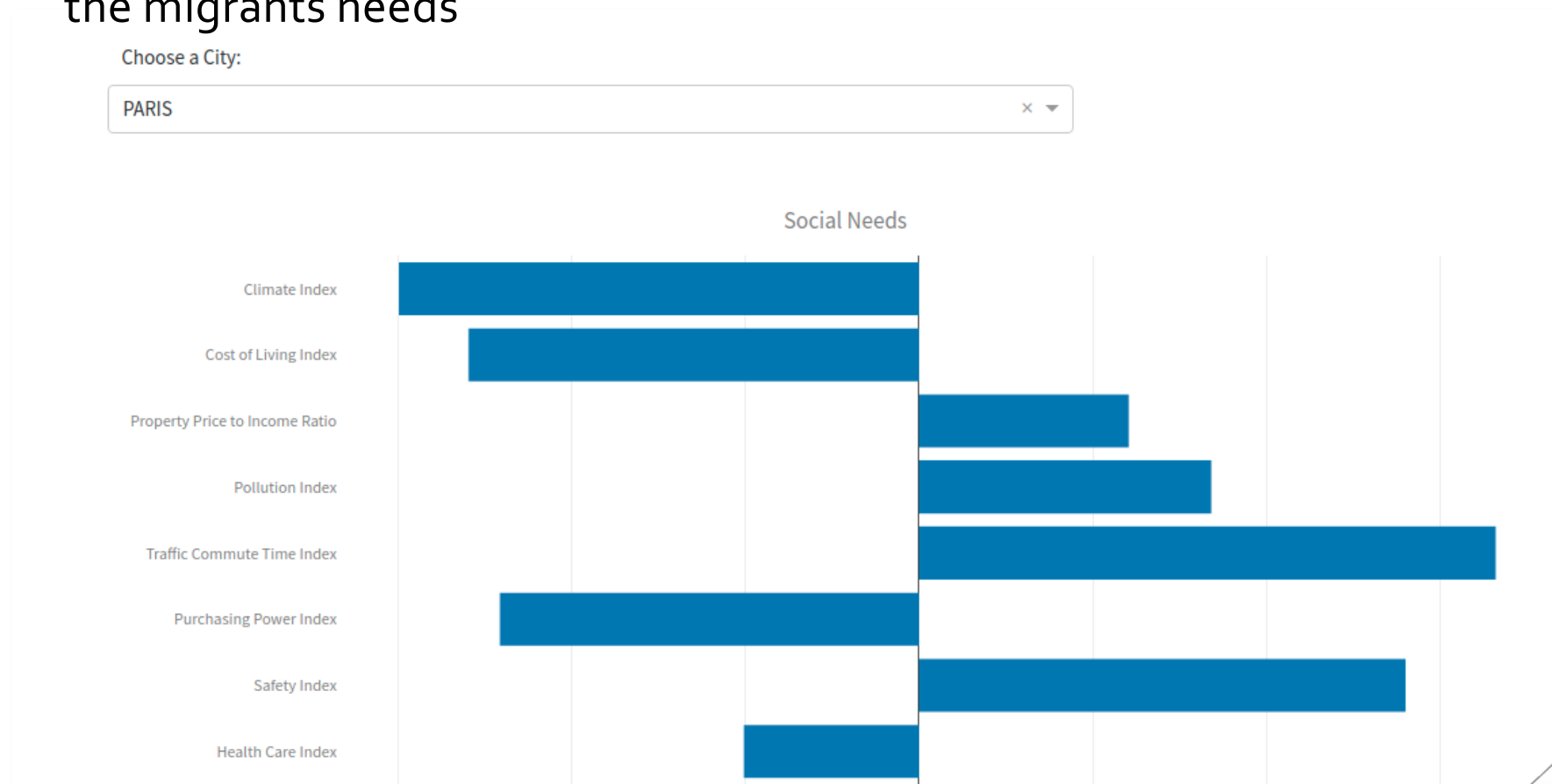
NADINE solutions better migration management

▶ Review existing migrant status in Europe

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NADINE solutions for migrants

NADINE suggested and implemented technical solutions for **migrants** for

- better migrant skill assessment

- easing the creation of a professional portfolio and CV

- offering optimal career guidance

- providing personalized recommendations for trainings

- suggesting job vacancies for a specific city based on the user's skills

through a multilingual user friendly interface

NADINE solutions for NGOs and organizations

NADINE suggested and implemented technical solutions assisting **NGOs** for

▸ better management of arriving population

▸ better preparing the migrants for the labour market

NADINE suggested and implemented technical solutions assisting **organizations** for

▸ shaping the host infrastructures boosting prosperity

▸ obtaining a better view on existing migrant status in Europe aiming at improved migration management

Thank you!

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