Designing future mobility solutions for and with people with impairments – First results from the TRIPS project

Alexandra König, Laura Alčiauskaitė & Tally Hatzakis
Presentation outline

1. Overview over the TRIPS project
   I. Project objectives
   II. Methodology

2. First results
   I. preparation phase
   II. co-production phase
   III. co-design phase

3. Main takeaways
1. Fact sheet of the project

• TRIPS stands for *TRansport Innovation for vulnerable-to-exclusion People needs Satisfaction*

• 10 partners and 7 European cities are engaged in the project

• The project is funded for 3 years (02/20 – 01/23) by the EU
Objective 1
Understand disabled citizens’ divergent needs and attitudes towards future mobility as a means for designing inclusive mobility solutions.

Objective 2
Review the state of the art and future trends in mobility, assistive technologies and digital trends relating to mobility to identify gaps.

Objective 3
Develop and test a Co-design-for-All methodology to enable equal access to open innovation to all citizens.

Objective 4
Engage disabled citizens and institutional actors in developing policy recommendations, research priorities and an industry roadmap.
Methodology

- Identification of barriers and derivation of user requirements
- Review of mobility trends, assistive systems, information and communication
- Assessment of inclusive mobility challenges and creation of the *Mobility Divide Index*
- Development and application of Co-design-for-All methodology
- Case study pilots
- Policy and industry recommendations

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement no. 875588
Methodology

- The methodology of the TRIPS project can be described in four phases of collaborative work.

1. **Prepare**
   - Team building
   - Role definition
   - Challenge description
   - Common task definition
   - Capacity building

2. **Co-Produce**
   - Local challenge definition
   - Stakeholder involvement
   - Qualitative and quantitative user-led research

3. **Co-Create**
   - Method development
   - Co-creation workshops
   - Stakeholder management
   - Development of priorities and roadmap

4. **Co-Evaluate**
   - Pilot team building
   - User-centered testing and evaluation
   - Derivation of recommendations
2. First results
Phase 1 - Prepare

• Forming of local working groups of 10-15 people, including persons with different access needs, transport providers and representatives of city municipality
• Coordination by European Network on Independent Living (ENIL)
• Nomination of Local User Lead (LUL) for each working group
• Preparation of a document for a joint understanding of co-production in practice.

Picture: Local working groups and LUL in the seven cities coordinated by ENIL
Phase 2- Co-produce

Social media content analysis

= a method to analyze social media content that serves as a barometer for attitudes and opinions (Lai & To, 2015)

• used to identify barriers that people with access needs face before, during and after their travelling with public transport

• 30 entries per city were researched by Local User Leads of working groups
Phase 2- Co-produce

Interview study

• 7 disabled citizens per city ($N = 49$)
• Conducted to acquire in-depth information and insights concerning the knowledge and opinions of the interviewees
Phase 2- Co-produce

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3. Main takeaways

• Describe our co-design for all, open innovation process along with our reflections on the complications due to social distancing and our mitigations.

• Present the inclusive mobility design concepts and their underlying principles from our ideation workshops in seven project cities.
Thanks for your attention and interest!

For further information on the project visit
https://trips-project.eu/

Contact information:
Tally Hatzakis, Trilateral Research
Tally.hatzakis@trilateralresearch.com