Rapid Delivery of Transport Innovations – State-of-the-Art Report and Interactive Online Tool

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Abstract

Results from the FastTrack State-of-the-Art Review are outlined below, including the process and method used in collecting the knowledge. Also described is how this review formed the FastTrack Interactive Online Tool, and how this is presented online.

Project Partners

Organisation	Country	Abbreviation
ICLEI EUROPEAN SECRETARIAT GMBH	Germany	ICLEI
EUROCITIES ASBL	Belgium	EUROCITIES
MOBIEL 21 VZW	Belgium	M21
EUROPEAN INTEGRATED PROJECT	Romania	EIP
VECTOS GMBH	Germany	VECTOS
ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	Greece	CERTH
STAD ANTWERPEN	Belgium	Antwerp
COMUNE DI BOLOGNA	Italy	COBO
BUDAPEST FOVAROS ONKORMANYZATA	Hungary	MUNBUD
STOCKHOLMS STAD	Sweden	STOCKHOLMS STAD

Document History

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Dissemination Level: WPL = Work Package Leader, PM = Project Manager, PC = Project Coordinator, PO = Project Officer

Legal disclaimer

Table of Contents

List of Figures

1 Executive Summary

The results from the FastTrack State-of-the-Art Review are outlined, including how the information was gathered through a literature search, plus other avenues. This knowledge formed the FastTrack Interactive Online Tool, giving a compendium of knowledge about how to accelerate (or "FastTrack") innovations. This knowledge will aid the FastTrack Local Affiliates in their implementation of an innovation through support of the FastTrack project, but also the wider public in "FastTracking" their own innovations.

2 Introduction

The FastTrack State-of-the-Art Review is an appraisal of existing knowledge regarding the rapid delivery of innovations from inside and outside of FastTrack. It is supporting the capacity building process taking place within FastTrack and mainly consists of a collection of case studies responding to the ("vertical" and "horizontal") topics covered by the project. This deliverable (D1.5) summarises the process used, the case studies collected, and the method behind the Interactive Online Tool.

2.1 About FastTrack

FastTrack works with 24 urban and peri-urban areas from all over Europe to help them accelerate (or "FastTrack") the deployment of sustainable mobility innovation. These 24 "Local Affiliates" receive support from six technical partners plus additional suppliers. The core of FastTrack is a two-year capacity building process comprising five learning-sequences. In this context, each Local Affiliate further develops at least one mobility innovation. The work on this innovation, exchange of experience and (peer-)learning is organised in four learning-communities, the topic-based clusters. Each of these clusters is led by an experienced Ambassador City. In addition, learning related to horizontal topics is provided.

The four clusters focus on the following topics:

- Sustainable & Clean Urban Logistics
- Cycling in the Urban & Functional Urban Area
- Integrated Multi-modal Mobility Solutions
- Traffic & Demand Management

These clusters have been chosen as they are reflective of the innovation needs of the Local Affiliates, and this will enable more specific learning and sharing of innovation between the Local Affiliates.

According to the current state of discussion within the project, the horizontal topics (cross-cutting themes, also known as skills streams) are:

- Digitalisation & data management
- Funding, financing & business models (including procurement)

- Governance, cooperation, participation, co-creation
- Behaviour change

These Cross-Cutting Themes are topics that have been found to be relevant to all FastTrack Local Affiliates, across the four Topic-Based Clusters. More information about these Cross-Cutting Themes can be found at *https://fasttrackmobility.eu/clusters/cross-cutting-themes*. It should be noted that the Behaviour Change theme has been included as an additional theme.

2.2 The role of the State-of-the-Art Review within FastTrack

The State-of-the-Art Review is supporting the capacity building process taking place within FastTrack. It provides a collection of case studies responding to the ("vertical" and "horizontal") subjects covered by the project (see above). These eight subjects can be used by the Local Affiliates to define where they would most like to gain knowledge.

The State-of-the-Art Review provides case studies to inspire the Local Affiliates, and also to showcase the innovation efforts of the Local Affiliates and of other cities.

3 Aim and target groups of the State-of-the-Art Review

3.1 Aim

The FastTrack State-of-the-Art Review and Interactive Online Tool is a compendium of the most up to date knowledge in the rapid delivery of innovations inside and outside of FastTrack.

The knowledge gathered, which will be showcased in the Interactive Online Tool, is that which could aid the FastTrack Local Affiliates in accelerating ("FastTracking") their own innovation measures, due to be implemented through the support of the FastTrack project.

3.2 Target groups

3.2.1 The Local Affiliates

Within the FastTrack project, each Local Affiliate and Ambassador City has marked themselves as a "Leader", "Sharer", or "Starter" for particular topics of interest. These can be described further as:[1]

- **Leaders:** a relative leader or Ambassador Local Affiliate in a specific topic, but still with room to benefit from further advice and enhancement through FastTrack

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[1] See FastTrack-proposal

- **Sharers:** "capacity conscious" Local Affiliates who can share knowledge, like Leader Affiliates, but who also have learning needs about the topic, alongside the Starter Affiliates

- **Starters:** Local Affiliates facing a rapid transition curve and ready to interact and learn from the challenges, experiences and proven knowledge of the Leader and Sharer Affiliates

The FastTrack project is focused towards compressing the time taken by Starter and Sharer Affiliates to achieve successes in deployment of innovation. In this regard, the four Topic-Based Clusters and the four Cross-Cutting Themes can be used by the Local Affiliates to define where they would most like to gain knowledge from others, or to share their own knowledge and experience.

It is also important to understand that a Leader in one topic may define themselves as a Sharer or Starter in another area where they wish to gain further insight.

The Interactive Online Tool has been formed with this in mind.

3.2.2 The public

The Interactive Online Tool will also be available to the public, to enable the information to also aid other cities and areas to "FastTrack" their own innovations. This is the reason why the Online Tool is hosted on the public FastTrack-website and not on the Exchange Hub which is only available for the Local Affiliates. It is intended this will be promoted and disseminated through further portals such as CIVITAS and City Consult Agency ("Mobility Matters") led by the FastTrack coordinator ICLEI.

4 Sources

The State-of-the-Art Review consists of a combination of information gathered through:

1. a literature search,

2. the consortium's own collective professional knowledge,

3. and success stories from the Local Affiliates involved in FastTrack.

4.1 Literature Review

In order to provide the FastTrack Local Affiliates with knowledge concerning the rapid delivery of innovations, a literature search was conducted for information from outside the FastTrack project.

During this literature search, information was searched for under each Topic-Based Cluster (Sustainable & Clean Urban Logistics; Cycling in the Urban & Functional Urban Area; Integrated Multi-modal Mobility Solutions; and Traffic & Demand Management), and also under

each Cross-Cutting Theme (Digitalisation & Data Management; Funding, Financing & Business Models; Governance, Cooperation, Participation & Co-creation; and Behaviour Change).

The Literature Search was conducted by searching through a variety of internet sources. These included Google, Google Scholar, CIVITAS, and Eltis. The presentation and format of information on existing online best practice libraries was also reviewed to ensure any pitfalls were avoided and good practices in information dissemination could be repeated.

4.2 The consortium's own collective professional knowledge

In addition to the Literature Review, case studies and success stories were also collected from the FastTrack project partners according to their responsibility for the Topic-Based Clusters. For example, CERTH contributed case studies related to Traffic & Demand Management, and EUROCITIES case studies related to Urban Logistics. VECTOS launched a respective internal survey in July 2021.[2]

More additions will be added over the course of the FastTrack project.

4.3 Success stories from the Local Affiliates involved in FastTrack

The results from this literature search have been combined with success stories from the Local Affiliates where they have succeeded in accelerating ("FastTracking") implementation of innovation in their own city / area. This information was gathered from the Local Affiliates during the Needs Assessment surveys and interviews conducted for and reported in other FastTrack deliverables (e.g. D1.1 and D1.2).

5 Presentation of results: State-of-the-Art Tool

The different sources of knowledge have been combined to form the Interactive Online Tool, which is hosted on the FastTrack website (*https://fasttrackmobility.eu/tool*). The current title of the "Interactive Online Tool", however, will be updated once the tool is launched publicly, to better represent its functionality for Local Affiliates and other users.

5.1 Overall structure of the State-of-the-Art Tool

The State-of-the-Art Tool is structured according to the vertical and horizontal topics covered by FastTrack. As mentioned in Chapter 2.1, within FastTrack, the core themes are displayed
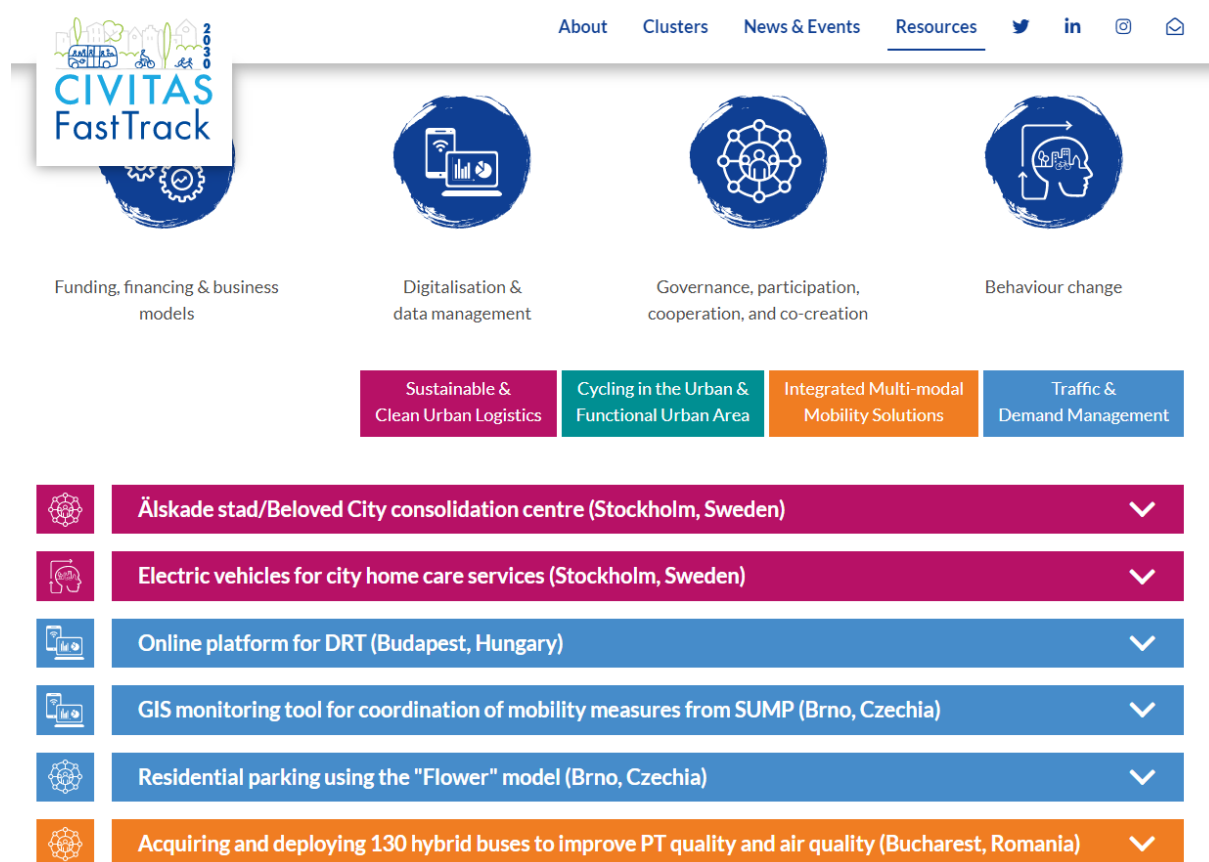
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[2] The Needs Assessment Survey can be found at: *https://forms.gle/anyciM7thC8n31wz6*

through the four Topic-Based Clusters. The Cross-Cutting Themes are topics that have been found to be relevant to all FastTrack Local Affiliates, across the four Topic-Based Clusters.

See Figure 1 below for the Interactive Online Tool website structure.

Figure 1: FastTrack Interactive Online Tool

These eight subjects can be utilised by users of the Online Tool to define where they would most like to gain knowledge. It helps them to filter the case studies presented in the Online Tool.

5.2 Structure of the case study descriptions and Case Study Example

Each case study is presented based on a single template. This was designed to offer insight into how to FastTrack innovation, and to provide other cities / areas with enough information to apply to their own innovation.

The figure below shows an example of a Case Study from the Online Interactive Tool, demonstrating the information provided.
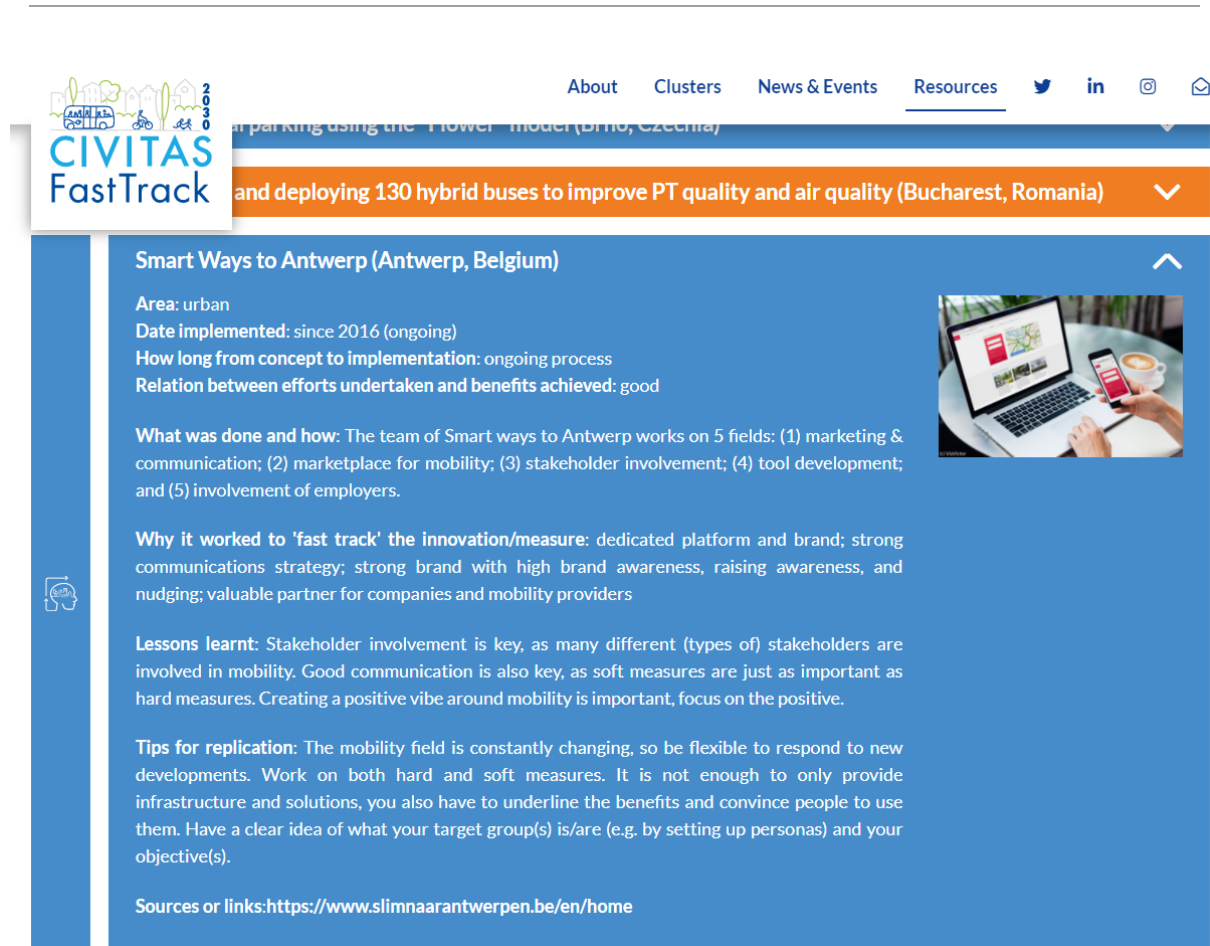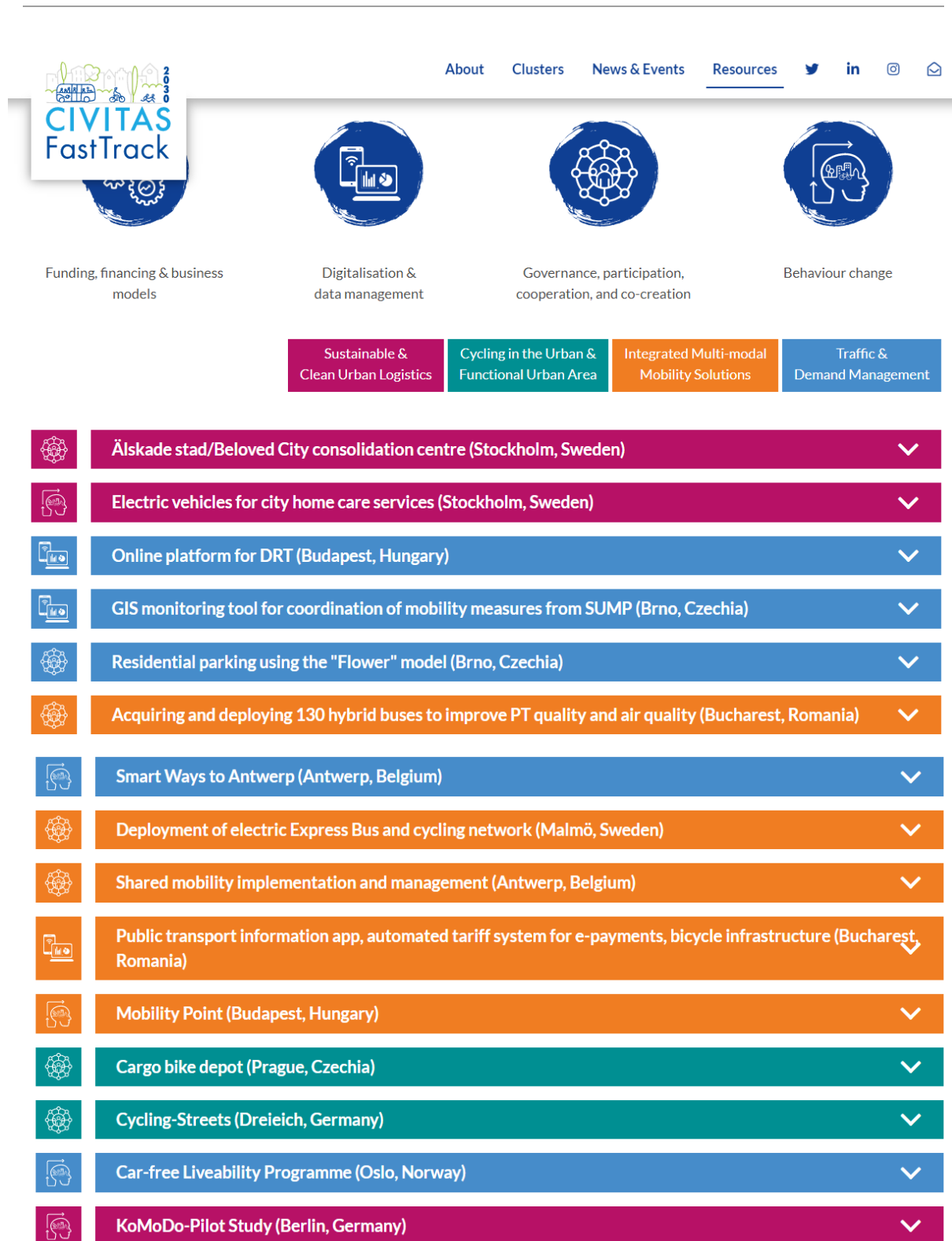
Figure 2: Case Study example from the Online Interactive Tool

5.3   Online Tool Case Study Matrix

The Online Interactive Tool will continue to be built upon throughout the FastTrack project. A selection of the case studies available (as of January 2022) can be seen in the figure below.

Figure 3: Selection of Case Studies available on the FastTrack Online Interactive Tool

5.4 Technical Specifications

As mentioned in Chapter 2.1, the eight subjects of the Topic-Based Clusters and the Cross-Cutting Themes were used to structure the Interactive Online Tool. In this regard, it was

desirable to be able to filter results at the point of use by both Cluster and Theme, forming a matrix (see Figure 1). The base structure of the FastTrack website enabled this interactive format, and so this was chosen as the host for the tool.

Through hosting the tool on the FastTrack website, this also allows for more control and faster updates for the tool, through working directly with the project partner ICLEI, who is responsible for the FastTrack website. It is also flexible to be exploited via other websites further to the immediate life of the FastTrack project.

The Interactive Online Tool entries can be made to show in only one of the Topic-Based Clusters and in only one Cross-Cutting Theme. Therefore, in order to make the tool as relevant as possible to the person searching, it was agreed to include duplicate entries of case studies, if they were relevant to more than one subject, to enable them to appear in multiple searches under different topics. One of the features of other websites reviewed is that "no results" can be immediately be frustrating to the user.

6 Key Conclusions

The FastTrack Interactive Online Tool shows key messages and conclusions for each of the Topic-Based Clusters and for each Cross-Cutting Theme, in order to highlight key points of existing learning about how to accelerate innovation. This has been found to be an underreported aspect of sustainable mobility innovation and as such this initial FastTrack library adds significantly to the accessibility of knowledge and case studies in progressing to implement solutions quickly. This will enable the Local Affiliates and other users of the tool (including advisors within the FastTrack consortium) to home in on the knowledge they would most like to gain value from.

In conjunction with other research with Local Affiliates, these key conclusions within the tool elaborate on common areas of challenge and success, the enabling factors and methods for overcoming barriers to innovation, and also other elements that have been proven to be successful in supporting the take-up of innovation. They will be discussed within the consortium before publication. Key messages from the tool will be communicated via FastTrack's news streams upon the tool's launch.

Also, further case studies will continuously be added to the Online Tool during the capacity building process, responding to needs expressed by the Local Affiliates while participating in the learning-program.