TURAS

# Sofia development mapping video – Sofia | Infrastructure Summary

## SEPTEMBER 2016


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## Introduction

Transitioning Towards Urban Resilience and Sustainability (TURAS) is an FP7 funded European-wide research and development programme. The "TURAS" project aims to bring together urban communities, researchers, local authorities and SMEs to research, develop, demonstrate and disseminate transition strategies and scenarios to enable European cities and their rural interfaces to build vitally-needed resilience in the face of significant sustainability challenges. As part of this process, the TURAS project has developed a suite of Geo-ICT tools for the project to demonstrate some of the research topic address over the lifespan of the project.

## Design Intent

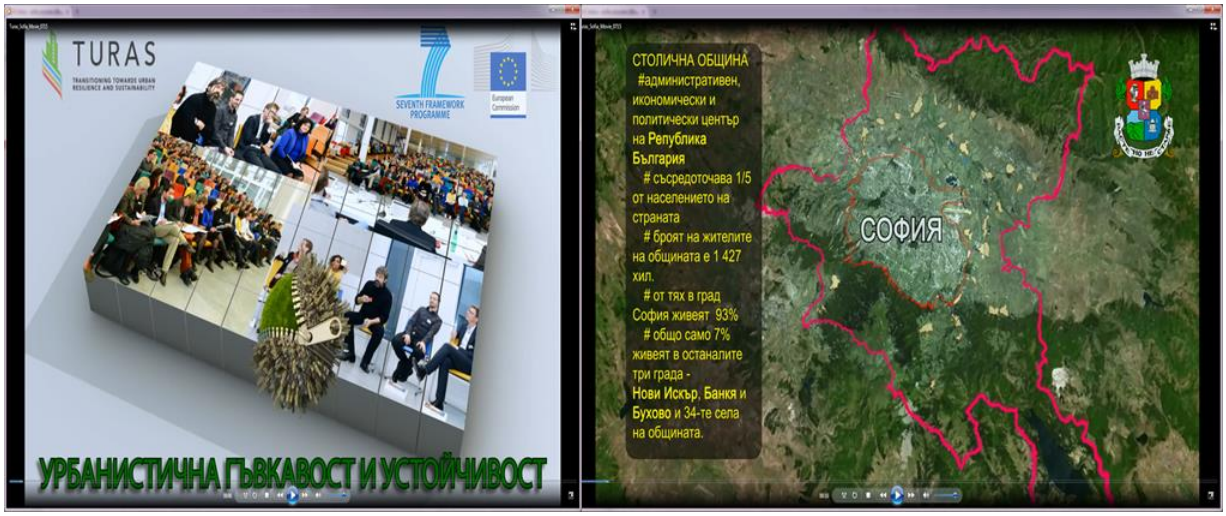
The Sofia development mapping video focuses on the integration, communication and visualisation of a spatial plan for Sofia (Figure 38). The Sofia development mapping video was developed as part of WP5 – Limiting Urban Sprawl in order to address the issue of urban sprawl and the development of measures and policies that will contribute to the sustainability and resilience of urban areas under constantly changing urban conditions. The video aims to provide a visual resource for the local community to promote TURAS and to better understand the policies for suburban development and control of growth of Sofia Municipality. The goal is to increase engagement and collaboration with local stakeholders and in doing so improve the city's social and environmental capital.

**Contact Details:** University College Dublin was the lead partner in the development of Sofia's policy visualisation video. Sofia Municipality team and the Sofproect team developed the video with the assistance of WP5 partners University of Varna.

**Link to Existing Application:** http://www.turas-cities.org/urban_regions/Sofia/en

## Principal Elements

**Figure 1: Sofia development mapping video**




### Functionality

The video has one main function: visualisation.

*Visualisation:* The main functionality is the visualisation of suburban development policy in a comprehensible manner.

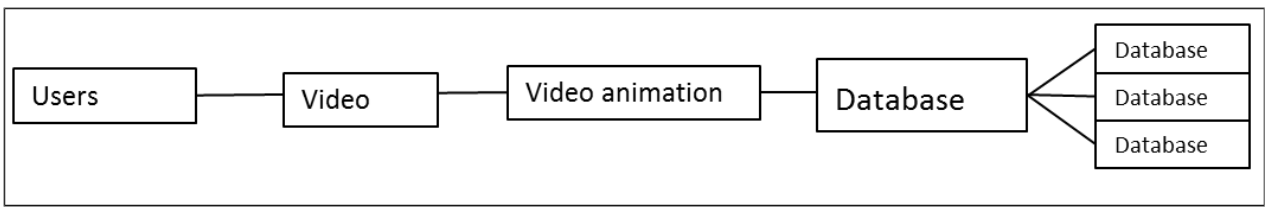
### Technical development

The application was developed by the Sofproect team based on a tool design concept (Figure 39). Three databases containing information on planning in Sofia feed into one database for the video display. The video was developed using the following software:

### Software

- Access software: Database
- Arc Map: GIS software
- JASHAKA software: Video animation software, open source program for video composing, animation and special effects
- Autocad: Computer-aided drafting software program

**Figure 2: Sofia development mapping video tool design concept**



## *Wider Application Dissemination*

In order to create the best environment for re-use, modification and visibility of the TURAS Geo-ICT tools we package all code and documentation for each application and have made them directly available to the public in zip file or available on GitHub @ https://github.com/UCDTURAS.

**Compressed Archive File**

- To make the development and coding accessible to the public and researchers interested in using, adapting, or further developing the TURAS tools, we have packaged the information (code, development operations and documentation) into a single compressed file which can be downloaded from the final TURAS interface. This package will contain a computer program as well as necessary metadata for its deployment.

**GitHub Repository**

- The aim of the TURAS project is to bring urban communities and businesses together with local authorities and researchers to collaborate on developing practical new solutions for more sustainable and resilient European cities. Following this, we recognise the importance of having a dedicated modern interface with which to disseminate all the Geo-ICT tools developed as part of the project. TURAS has created a GitHub account to allow end-users, technical developers etc to push/pull data code from the TURAS account.