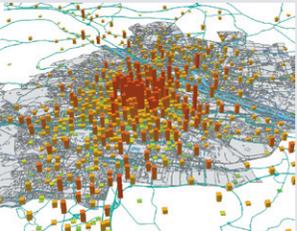


urbanAPI is seen as a community driven solution project and the resulting ICT tools shall improve city planning and management in the long term.

The **urbanAPI tools** developed cover three urban planning contexts.



The **NEIGHBOURHOOD API** directly addresses the issue of stakeholder engagement in the planning process through the development and provision of enhanced virtual reality visualisations of neighbourhood development proposals.



The **CITY API** will provide mobile phone based ICT solutions that permit the analysis and visual representation of socio-economic activity across cities and in relation to the various land-use elements of the city.



The **URBAN REGION API** will provide ICT simulation tools for interactive city region development simulation addressing urban growth and densification with planning interventions.

The urbanAPI toolset will allow the fast development and deployment of participative policy support applications for decision support, conflict management, analysis and visualisation.

urbanAPI project partners



Fraunhofer Institute for Computer Graphics Research IGD
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<http://www.igd.fhg.de/>



University of the West of England
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AEW srl
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Centro de Estudios Ambientales
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Agency for Sustainable Development and Eurointegration - ECOREGIONS
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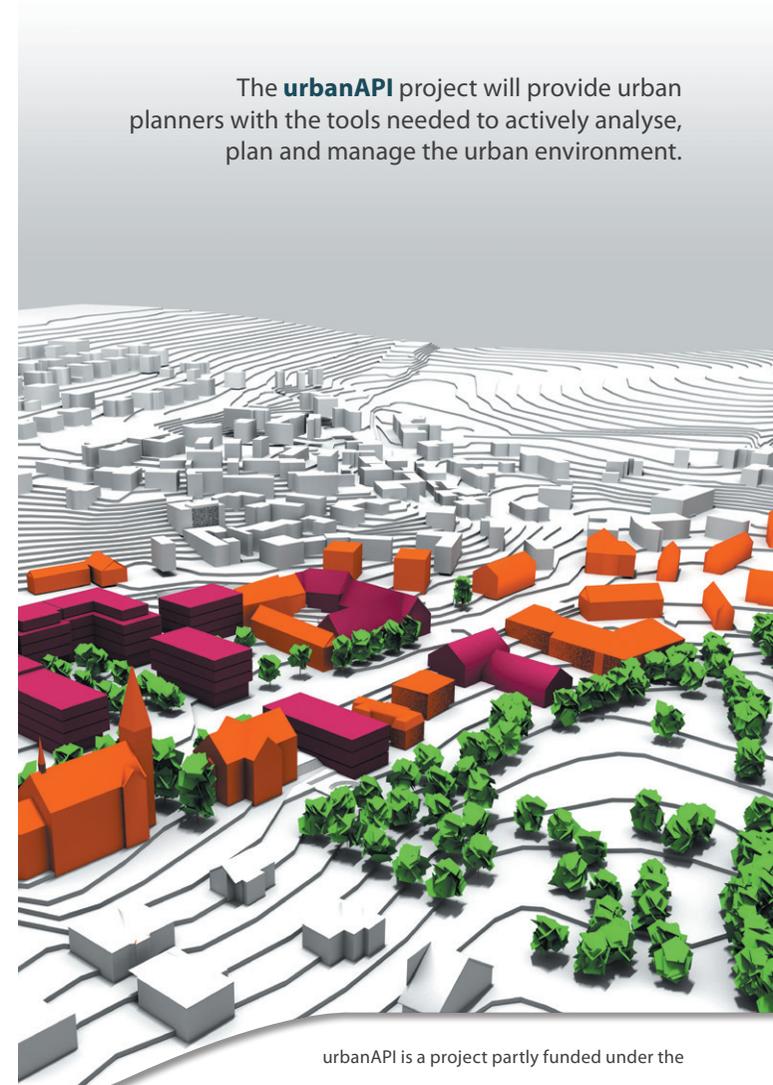
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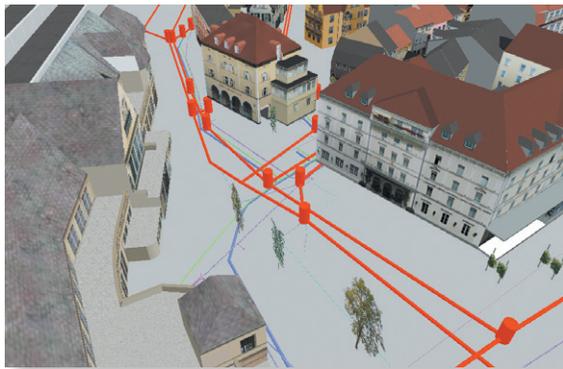
The **urbanAPI** project will provide urban planners with the tools needed to actively analyse, plan and manage the urban environment.

urbanAPI is a project partly funded under the

NEIGHBOURHOOD SCALE: URBAN PLANNING USING A 3D SCENARIO CREATOR

Using **3D virtual and augmented reality visualisations** the general effects and the visual impact of urban development plans can be shown as realistically as possible.

Virtual representations of planning decisions are the **most convenient and understandable solution** for presenting spatial planning alternatives to the public.

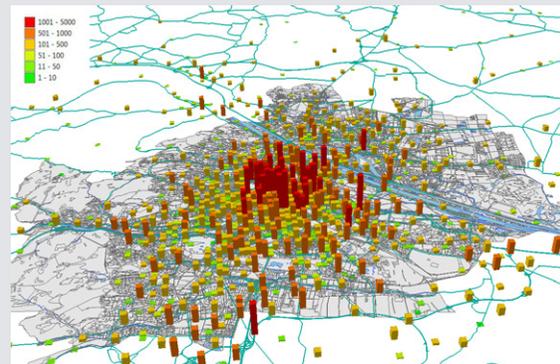


AIM	Support negotiation process for urban development projects
DATA INPUTS	High quality 3D geodata
SYSTEM REQUIREMENTS	Standard web browser like Chrome Mobile application
OUTPUTS	3D virtual and augmented reality visualisations for urban development projects

CITYWIDE SCALE: THE PUBLIC MOTION EXPLORER

In today's world, wireless **mobile communication devices** establish and support permanent interconnectedness between people, places and urban infrastructure.

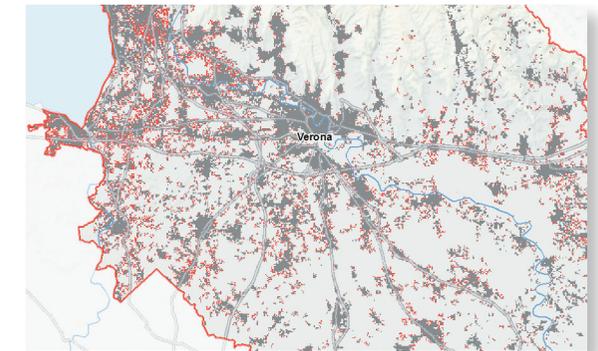
Mobile communication services allow the exploration of **communication traces, describing human sojourn and activity patterns.**



AIM	Assess public motion patterns as response to urban infrastructure
DATA INPUTS	Anonymised logged user events with time stamp and coordinates
SYSTEM REQUIREMENTS	Standard web browser
OUTPUTS	2D/3D visualisations of population distribution and mobility patterns; hourly origin-destination matrices, describing urban-wide population motion

URBAN REGION SCALE: INTERACTIVE CITY REGION DEVELOPMENT SIMULATION

The urban region development simulation helps to **understand large scale consequences of spatial planning decisions** in a complex urban system.



AIM	Understand the large scale consequences of spatial planning decisions
DATA INPUTS	<ul style="list-style-type: none"> > Land cover/use datasets > Street block layer > Traffic infrastructure network > Spatially detailed demographic data, future scenarios on population- and economic development > Alternative zoning regulation and planning guidelines
SYSTEM REQUIREMENTS	Standard web browser
OUTPUTS	2D/3D visualisations of urban region development and land use change triggered through planning interventions