



ITEA 3 is a EUREKA strategic ICT cluster programme

Exploitable Results by Third Parties

ITEA2 Call 8 – 13016 C³PO: Collaborative City Co-design PlatfOrm

Project details

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Name: Querying on core ontology and domain ontologies of city-co-design			
Input(s):		Main feature(s)	Output(s):
RDF query		 Semantic modeling of a set of domain ontologies of city co-design (transport, GIS, traffic, planet) and semantic linkage between them (core ontology) Semantic data storage using W3C linked open data standard 	RDF result
Unique Selling Proposition(s):	des • Co	mantic and standardized representation of c sign impliant with the W3C linked data approach sy to integrate with other ontologies (domain	(linked open data)
Integration constraint(s):	■ RD	■ RDF-based data storage	
Intended user(s):	■ App		
Provider:	Open source		
Contact point:	■ Phi	Philippe Thiran & Alper Kanak	
Condition(s) for reuse:		one (open source)	
		Late	st update: 9 November 2017



Name: AROnSite			
Input(s):	Main feature(s)	Output(s):	
 3D model of planned building, and possible existing buldings Map of building si 	 The AROnSite application augments the 3D building model in live video image on mobile device's screen Accurate augmentation based on interactive initialization and markerless tracking Fully automatic operation, based on previously stored environment features Visualization features, including comparing of alternative designs, masking by existing buildings, different lighting models Implemented on Android mobile devices Content creation using separate MapStudio application on Windows 	 Real time AR view of planned building shown on real word site Videos and still images of AR view 	
Unique Selling Proposition(s):	architectural AR visualization	and step outside to see	
Integration constraint(s):	Supported 3D model formats: Collada, 3DS, O Supported map formats: Google Maps, GeoTIF		
Intended user(s):	Land use consultants, architects, city officials,	Land use consultants, architects, city officials, other interest groups	
Provider:	rovider: • VTT Technical Research Centre of Finland Ltd.		
Contact point:	charles.woodward@vtt.fi		
00.10.11.01.(0) 10.			
	Late	st update: November 8, 2017	



Name: VR 4 Urban Transformation		
Input(s):	Main feature(s) Output(s):	
 3D design of new urban arplans 3D design of infra- and super-structure Any city data (static or dynamic) Map Preferences 	 3D design of infra- and super- structure can be shown as layers of data Static or dynamic city like existing 	
Unique Selling Proposition(s):	 Suitable for both hand use and interaction booths Layered information with live sensory data can be shown Can be integrated with any semantic framework 	
Integration constraint(s):	 Supported 3D model formats: Collada, 3DS, OBJ, FBX Supported map formats: Google Map (if requested) integration with a cloud platform 	
Intended user(s):	 Land use consultants, architects, city officials, citizens other interest groups 	
Provider:	■ ERARGE	
Contact point:	alper.kanak@erarge.com.tr	
Condition(s) for reuse:	 Software licensing per company, per year, or per model 	
	Latest update: November 9, 2017	



Name: CHAOS [™] for city challenges		
Input(s):	Main feature(s)	Output(s):
 Any streaming city data (traffice processes, movements) Maps 		Inferenced analysis resultsRecommendations
Unique Selling Proposition(s):	 Statistical analytics generate a confidence used for planning urban services (i.e. trainant interval of [30% - 70%] Chaotic prediction generates recommended duration) for grid-like urban transportation. For non-grid networks, the chaotic analyst recommendation for providing predictability specific location for chaotic predictability. 	ffic intensity will realize in dations (like traffic signaling n network sis generates a ity (add a detour in a
Integration constraint(s):	 The tool should be sourced with streaming Operates on homogeneous data (i.e only CO2 measurements) 	•
Intended user(s):	 Land use consultants, municipalities, city officials ERARGE alper.kanak@erarge.com.tr 	
Provider:		
Contact point:		
Condition(s) for reuse:	 Software licensing per company, per yea selling recommendations or inference kn study 	•
	La	test update: November 9, 2017



Name: AR 4 Urban Transformation		
Input(s):	Main feature(s)	Output(s):
 3D design onew urban aplans 3D design one infra- and super-struct Any city data (static or dynamic) Map 	in live video image on mobile device's screen 3D design of infra- and super-	building shown on real word site Videos and still images of AR view
Unique Selling Proposition(s):	 Markerless AR can be generically adjust Marker-based AR can be used for table Layered information with live video data Can be integrated with any semantic fra 	-top planning can be shown
Integration constraint(s):	 Supported 3D model formats: Collada, 3 Supported map formats: Google Map (if requested) integration with a cloud pl 	
Intended user(s):	 Land use consultants, architects, city of groups 	ficials, citizens other interest
Provider:	■ ERARGE	
Contact point:	alper.kanak@erarge.com.tr	
Condition(s) for reuse:	 Software licensing per company, per year, or 	or per model
	L	atest update: November 9, 2017



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Name: Urban Traffic Semantic and Computer Vision Framework and ERARGE Traffic Ontology

Input(s):	Main feature(s)	Output(s):
 Traffic data (open data like YANDEX traffic intensity or instant traffic intensity values extracted by the online visual urban surveillance system) API calls and RDF queries 	 Standardized access to linked (semantic) data Service that can be integrated with any web utility Computer vision techniques to extract vehicle and pedestrian intensity from surveillance camera recordings 	RDF results
Proposition(s):	Urban and traffic events are well-categoriz Cost of any urban service or any related re or traffic events can be modeled Capable of extracting vehicle and pedestria surveillance camera recordings and feed the	ed ecommendation for urban an intensity from ne system by the ed data ach (linked open data)
Integration constraint(s):	OWL standardizedAny cloud platform that enables the stream	ning of traffic data
Intended user(s):	Land use consultants, municipalities, city o	fficials
	• ERARGE	
Provider:		
Provider: Contact point:	alper.kanak@erarge.com.tr	



Name: iSocialWall			
Input(s):	Main feature(s)	Output(s):	
 All posts from Twitter based or keywords, #hashtags and @mentions All Municipality Facebook, Instagram, Yout Flickr account's Maps 	 Social Wall for Outdoor Screen Municipality Area Social interaction tools Social city platforms 	eens at A social media platform over WEB	
Unique Selling Proposition(s):	 media platforms adding social news and information places live stream puts the on-line convers and encourages others to join in a opinion mining in social city platform sources of the C3PO platform 	media platforms adding social news and information, administration, etc at public places live stream puts the on-line conversations in front of more people and encourages others to join in and have their say too opinion mining in social city platforms, which will integrate widely used social networking services and the data gathered from different sources of the C3PO platform social media-based co-design tools that support both asynchronous	
Integration constraint(s):	 IsocialWall needs an Internet connection (wired or wi-However if the connection fails, it will still cycle based content already received and cached via the browser. A virtual server that hosts iSocialWall 		
Intended user(s):	 city officials, citizens other interes 	t groups	
Provider:	MANTIS		
Contact point:	guven.kose@mantis.com.tr		
Condition(s) for reuse:	Software licensing per company, p	per year,	
		Latest update: 9 November 2017	



	Name: Participation Pavilion	
Input(s):	Main feature(s)	Output(s):
 City/municipality policy topics Visualisations of future urban developments Citizen opinions 	 Physical booth (hardware) to be placed temporarily in the urban environment Open questions can be answered using voice Voice responses are recorded Recordings are analyzed using language analysis 	 Transcribed opinions Generalized insights
Unique Selling Proposition(s):	ligital urban participation method using non-digital elements as minant interactions aching out to a broad, age or background independent, slice of zens	
Integration constraint(s):	Close interaction between the provider and the	e user is required
Intended user(s):	City council Municipalities Policy makers Citizens & citizen representatives	
Provider:	Studio Dott.	
Contact point:	Dries De Roeck (dries@studiodott.be)	
Condition(s) for reuse:	Software: single cost licensing (per project) Hardware: renting or service licensing	
		Latest update: 9/11/2017



Name: Netigma		
Input(s):	Main feature(s)	Output(s):
 Any data based or location (tweet, traffic, etc.) Digitized city plan drawings Maps 	 Rule engine and action capability Dynamically created reports and queries Document archive capability User and authentication management 	 Map based platform over WEB Spatial and statistical analysis
Unique Selling Proposition(s):	 Location based social media analysis Location based public opinion vote analysi Visualization of urban transformation plans Reports on location based datas (hourly transformation) Queries over map Big data analysis 	3
Integration constraint(s):	 Netigma needs an Internet connection (wir A server that hosts Netigma Connection with a specified database for b Spatial tables for mapping functions 	·
Intended user(s):	CitizensStakeholders of city co-designMunicipalities	
Provider:	■ NETCAD	
Contact point:	hakan.yildirir@netcad.com.tr	
Condition(s) for reuse:	 Software licensing per company, per year, 	
Latest update: 9 November 2017		