

## **Smart City Tool Box**



Brought to you by the Horizon 2020 EU-Japan Project CPaaS.io

The CPaaS.io project has resulted in a set of conceptual outcomes, concrete tools and city deployments that will live on beyond the project, as shown in the figure to the right. The foundation for all results are a number of conceptual outcomes that are relevant for the platform as a whole and across the regions. The concepts are implemented using specific tools for the two implementation platforms, one for FIWARE-based implementations and one for u2-based implementations. A third toolbox contains instruments that make life easier for city planners. And finally, the project has resulted in concrete use case deployments in various cities in Japan and Europe, using the tools provided by the project.



In this flyer, we highlight the u2-based tools that others can use to make their cities smart. For all the rest and more details, please visit http://www.cpaas.io/

		u2 Toolbox		neck o
The following components were developed or enha			anced:	Meck out the Japanese White Paper thttps://cpaas.bfh.ch/?part Circ
Component Name	Short Description & Relevant Links		Maintainer	cpaas.bfh a sm
u2 Open Data Catalogue	Provides an open data catalog function, managing meta data of open data on the basis of an RDF framework and a SPARQL-based API for each catalog entry.  Usage examples:  http://yokosuka-opendata.ubin.jp  http://docs-sapporo.odcity.org/		<u>um</u> L	Meck out the Japanese White Paper thttps://cpaas.bfh.ch/?p=1279
kokosil	Software package to provide information for visitors and tourists in towns, tourist spots, commercial facilities, museums, parks, exhibition venues, etc. as well as to residents. Easily customizable to city needs. <a href="http://kokosil.net/index.en.html">http://kokosil.net/index.en.html</a>		<b>LLC</b> Technology	Magin CPT house layer limit (Informer    Protect   Prote
OPaaS.io	General-purpose PDS (Personal Data Store) that uses the IoT technology. Also called "Omotenashi (hospitality) cloud", it can be used to advance the hospitality service to the increasing number of overseas tourists who are expected to peak toward 2020 with the Tokyo Olympic and Paralympic Games. Enhanced API: <a href="https://contest.opaas.io/api-spec.html">https://contest.opaas.io/api-spec.html</a>		<u>Unl</u>	und Rouge under the first Bengar under the fi
uCR-Light	uCR-Light is a federation layer API to exchange data across different CPaaS.io instances. Its syntax is based on JSON and RESTful protocol. Its semantics is ucR, i.e., ucode + RDF.		Linguistas Riterarding Laborators	<b>В</b>
UTsignage	UTsignage is a signage system to based on the personal data of to cloud. It is built on top of uCR-L remote CPaaS.io instance(s).	the user stored in the OPaaS.io	東京大学	
UT dashboard	UTdashboard is a dashboard for buildings built on top of the u2- created using ucR-Light, and ca smart buildings simultaneously.	-based architecture. It has been	東京大学	
Enhanced ucode BLE	Enhanced by UTokyo to offer th Standard specification of ucode Energy as communication proto http://www.uidcenter.org/wp- content/blogs.dir/1/files/2017/1	tags using Bluetooth Low col (in Japanese):	東京大学 intentumortico	



















**Control Technology** 



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