





H2020-EUJ-02-2016

H2020 Grant Agreement Number 723076 NICT Management Number 18302

Deliverable D7.3

Dissemination and Standardisation Report (V1)

Version V1.0

June 30, 2017

ABSTRACT

This report lists all activities regarding dissemination and standardisation the CPaaS.io project has undertaken in the first year of the project. The project work resulted in 7 peer-reviewed scientific publications, 4 publications targeted towards the general public, 2 webinars, 4 demos at events, and several more project presentations to specific interest groups including city officials. An initial press release led to many press reports about the project. The project's public web site, a project flyer and an associated twitter account are other means through which information about the project is shared. Standardisation activities are currently low key, but are planned to be intensified in the upcoming years.

Disclaimer

This document has been produced in the context of the CPaaS.io project which is jointly funded by the European Commission (grant agreement n° 723076) and NICT from Japan (management number 18302). All information provided in this document is provided "as is" and no guarantee or warranty is given that the information is fit for any particular purpose. The user thereof uses the information at its sole risk and liability. For the avoidance of all doubts, the European Commission and NICT have no liability in respect of this document, which is merely representing the view of the project consortium. This document is subject to change without notice.

Document Information

Editors	Stephan Haller (BFH)		
Authors	Input from all CPaaS.io Partners		
Reviewers	Ernö Kovacs (NEC)		
Delivery Type	R		
Dissemination	Public		
Level			
Contractual	30.6.2017		
Delivery Date			
Actual	30.6.2017		
Delivery Date			
Keywords	Dissemination, Publications, Standardisation		

Revision History

Rev.	Date	Description	Contributors
0.1	16/05/2017	Structure, table of contents initial content	Stephan Haller (BFH)
0.2	25/05/2017	Added OdinS contributions	Antonio Skarmeta (OdinS)
0.3	01/06/2017	Added AGT contributions in sections 2.2	Martin Strohbach (AGT)
		Events, 2.4 Other publications, 2.5 Talks, and	
		3 Standardisation Activities	
0.4	08/06/2017	Added 2.4	Toshihiko Yamakami (ACC)
0.5	09/06/2017	Added 2.2 and 2.5	Katsunori Shindo (YRP)
0.6	20/06/2017 Editing for review and adding additional		Stephan Haller (BFH)
		partner contributions	
0.7	0.7 30/06/2017 Review and further adding of event		E. Kovacs (NEC)
		information	
1.0	30/06/2017	Final edit	Stephan Haller (BFH)

Table of Contents

1	Diss	semination Strategy	4					
		semination Activities						
		Public Website						
	2.2	Events						
	2.3	Scientific papers						
	2.4	Other publications						
	2.5	Talks, direct meetings etc						
	2.6	Press releases	10					
3	Star	ndardisation Activities	12					
4	Mei	Mentions in the Press						
5	Futi							

1 Dissemination Strategy

From a dissemination point of view, year 1 of the CPaaS.io project was mainly about getting the project known to many potentially interested parties, with the goal of establishing possibilities for cooperation and as a door-opener when talking to cities. Or more generally speaking, to provide the ground work that will lead to concrete exploitation opportunities in the upcoming years. This was done through the project's website, an associated Twitter channel, an initial press release, several public talks and exhibitions, as well as publications targeting a wider than just the scientific audience.

Most of the project's work in year 1 was however not about dissemination, but about the technical development of the platform, its functional architecture, and the concrete implementation architectures. Such technical results are what the project is about and what gives content for future dissemination activities that are also of interest to others. A number of scientific papers have resulted from this work already.

Table 1 summarizes the number of concrete disseminations done in year 1 compared to the target numbers as stated in the Description of Action (DoA).

Table 1: Dissemination targets according to DoA and numbers to date.

Type of measurable communication activity	Target number (whole project)	Number reached by June 2017
Journal publications	6	0
Conference and workshop publications	14	7
Tutorials and sessions in winter/summer schools	4	0
White papers	2	0
Deliverables (public deliverables)	35	9
LinkedIn discussion groups	1	0
Co-creation workshops	2	1
Demos at exhibitions	5	4
Demos in cities	3	1

Contributions to standards	2 major contributions, 4 support. contributions	0
Press reports	8	> 13
Webinars ¹	0	2

2 Dissemination Activities

2.1 Public Website

The CPaaS.io website (http://www.cpaas.io/) was designed as a single-page, responsive website that also displays well on mobile devices. It is available in English and Japanese (see Figure 1). Project updates are regularly reported in the News section. In addition, feeds from the associated Twitter channel (@cpaas.io) are displayed as a sidebar of news items (Figure 2).



Figure 1: Website in Japanese.



Figure 2: Twitter feed.

2.2 Events

Even in year one the CPaaS.io project has already made active contributions in several events, as shown in Table 2. The most important ones are certainly the participation at the TRON Symposium and at CeBIT. Below follows a short description of the CPaaS.io contributions at these events, in chronological order.

H2020 EUJ-02-2016 CPaaS.io Page 5 of 15

¹ Webinars had not been planned in the DoA

An exhibition **Fragments of Wisdom** was held at the Hongo Campus of the University of Tokyo (UoT) in Tokyo, Japan, 11th-28th October. The exhibition featured photos of the Hongo Campus taken by female photographer Michiko Sato. The exhibition was augmented by services based on the CPaaS.io architecture. Concretely this included a projection mapping service as well as a guide service.

Microsoft Japan (MSJ) and Yokosuka Telecom Research Park (YRP) made a presentation at **Resilient City Summit Toyama** in Toyama Japan, 2nd-3rd November, introducing the Sapporo use case of CPaaS.io.

YRP, MSJ, ACCESS (ACC), Ubiquitous Computing Technology (UCT), and UoT have promoted CPaaS.io at **TRON Symposium 2016** in Tokyo Japan, 14-16th December. At this symposium, the planned use cases were presented in the context of the whole objective of the CPaaS.io project, followed by a panel discussion about the merits of CPaaS.io as a common platform to realize such use cases.

AGT has promoted CPaaS.io at **CeBIT 2017** in Hannover Germany, 21-24th March. AGT participated with a point of demonstration (POD) as part of the Smart City Forum² booth. AGT demonstrated their video-based emotion detection solution as well as other analytics solutions for Smart Cities and Event Management that is used in CPaaS.io as part of the event management and user experience use case. The POD also demonstrated solutions from VaVeL³ and GrowSmarter⁴, two other H2020 Smart City projects in which AGT is participating. As concrete events and scenarios developed in CPaaS.io both a European event, the Color Run, and the Open Data initiative in Sapporo were presented. CPaas.io flyers in English and Japanese were distributed and as a result we engaged a larger number of individuals representing companies, municipalities, academia in the whole world. For 22 individuals we have received contact details. In addition we engaged with all the other companies, cities and project at the Smart City forum and participated at the 15th Expert Talk Seminar of the Smart City Forum.

NEC included CPaaS.io in their Smart City demonstration called CityMagnifier. Data from Murcia (delivered by the CPaaS.io partner Odin) was received and stored in a FIWARE server following the CPaaS.io architecture. The data were semantically analysed, mapped into the ontology of the FIESTA-IoT project and visualized in the CityMagnifier application. More than 100 visitors were seeing the demonstration live.

From a scientific perspective finally, Odin Solutions (OdinS) and the Bern University of Applied Sciences organized a workshop at the Global IoT Summit in Geneva on user-centric security, privacy and data governance in smart cities, USP4SC⁵, a topic important for reaching the objective of empowering the citizen to her data. In total, 7 peer-reviewed papers where presented on June 9.

-

² https://smart-city-forum.de

³ http://www.vavel-project.eu

⁴ http://www.grow-smarter.eu

⁵ http://globaliotsummit.org/workshop-usp4sc



Figure 3: Emotion detection demo showing CPaaS.io project team members at CeBIT.

From left to right: Gurkan Solmaz (NEC), Martin Strohbach (AGT), Stefan Gessler (NEC)

Table 2: Events with CPaaS.io contributions.

Event	Place	Date	Contribution	Partners
Fragments of Wisdom	Tokyo	Oct. 11-28, 2016	tt. 11-28, 2016 Augmented services for photo exhibition based on CPaaS.io	
			architecture	
Resilient City Summit Toyama	Toyama	Nov 2-3, 2016	Presentation of Sapporo Use Case	MSJ, YRP
2016 TRON Symposium	Tokyo	Dec. 14-16, 2016	Several sessions and panel discussion	YRP, MSJ, ACC, UCT, UoT
2017 CeBIT	Hannover	March 21-24, 2017	CPaaS representation at NEC both and Smart City Forum by AGT	AGT, NEC
2017 Global IoT Summit	Geneva	June 6-9, 2017	Workshop on user-centric security, privacy and data governancen in smart cities (USP4SC)	OdinS, BFH

2.3 Scientific papers

As shown in Table 3, the scientific work resulted in 7 peer-reviewed publications in year 1, with one additional paper currently being in review.

Table 3: Scientific publications in year 1.

Authors	Paper Title	Conference	Conference	Location
			Date	
T. Yamakami	A 4-stage Mental Model of	19th IEEE International	Feb. 19-22,	PyeongChang,
(ACC)	Conversion: An Approach to	Conference on Advanced	2017	Korea
	Capture Transition of	Communications Technology		
	Customer Mind	(ICACT)		

Authors	Paper Title	Conference	Conference Date	Location
V. Beltran, J. A.	User-Centric Access Control	2nd Workshop on User	June 9,	Geneva,
Martinez (OdinS),	for Efficient Security in Smart	centric security, privacy and	2017	Switzerland
A. F. Skarmeta	Cities	data governance in smart		
(OdinS)		cities (USP4SC)		
J. Frecè (BFH)	The Challenge of OwnData	2nd Workshop on User	June 9,	Geneva,
	Service Features	centric security, privacy and	2017	Switzerland
		data governance in smart		
T.V. 1 .	1.5:	cities (USP4SC)	1. 10.10	D 1: CI :
T. Yamakami	A Dimensional Framework to	14th International	June 16-18,	Dalian, China
(ACC)	Evaluate Coverage of IoT	Conference on Service	2017	
	Services in City Platform as a	Systems and Service		
T. Yamakami	Service	Management (ICSSSM) 14th International	l	Dalian China
	A Gap Analysis Framework of	Conference on Service	June 16-18, 2017	Dalian, China
(ACC)	IoT-empowered City Platform as a Service		2017	
	as a service	Systems and Service Management (ICSSSM)		
T. Yamakami	Horizontal Requirement	IEEE International Workshop	Aug. 21-23,	Helsinki, Finland
(ACC)	Engineering in Integration of	on Secure and Resource-	2017	Tieisiiiki, Tiilialiu
(ACC)	Multiple IoT Use Cases of City	Efficient Edge Computing	2017	
	Platform as a Service	2017 (SecureEdge 2017)		
M. Fraefel (BFH),	Big Data in the Public sector.	16th IFIP Electronic	Sept. 4-7,	St. Petersberg,
S. Haller (BFH), A.	Linking Cities to Sensors	Government (EGOV) and 9th	2017	Russia
Gschwend (BFH)		Electronic Participation	2017	rassia
G 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		(ePart) Conference 2017		
S. Haller (BFH), A.	Perspectives on Strategies: A	Hawaii International	January 3-6,	Waikaloa
Neuroni (BFH), M.	Smart City Strategy	Conference on System	2018	Village, USA
Fraefel (BFH), K.	Framework based on	Sciences (HICSS-51)		
Sakamura (YRP)	Morphological Analysis			
	(acceptance pending)			

2.4 Co-Creation Events

NEC participated in the co-creation event "Düsseldorf 2020 – Creating a Smart City" in Düsseldorf, 13.-14. June 2017. They presented a Hackathon challenge using the combination of public, enterprise, and private data. The response to the challenge was accepted by members from NEC; DIEHL Metering, digihub and E.ON.





Figure 4: Impressions from the co-creation event in Düsseldorf

2.5 Other publications

In April 2017, the scientific online journal of the BFH Centre Digital Society, SocietyByte, had as its featured topic "smart city". Three project-related articles by CPaaS.io partners were included:

- AGT: Martin Strohbach, Manuel Görtz and Markus Schlattmann, IoT Data Analytics A key enabler for the Growth of Smart Cities, https://www.societybyte.swiss/2017/04/21/iot-data-analytics-akey-enabler-for-the-growth-of-smart-cities/.
- BFH: Stephan Haller, Konrad Walser: Governance einer erfolgreichen Smart City Ein Multi-Stakeholder-Ansatz ist entscheidend, https://www.societybyte.swiss/2017/04/01/governanceeiner-erfolgreichen-smart-city-ein-multi-stakeholder-ansatz-ist-entscheidend/.
- TTN: Rishabh Chauhan: Building a decentralized Global Network for the Internet of Things, https://www.societybyte.swiss/2017/04/01/building-a-decentralized-global-network-for-the-internet-of-things/

In addition, in October 2016 another article was published in the same online journal, giving a project overview:

• Stephan Haller: Daten als Innovationstreiber der intelligenten Stadt, https://www.societybyte.swiss/2016/10/01/daten-als-innovationstreiber-der-intelligenten-stadt/.

2.6 Talks, direct meetings etc.

The project has also been presented in various talks and direct meetings with city officials, as shown in Table 4. In addition, specific exploitation-oriented meetings have taken place as well; these are listed in deliverable D7.4.

Table 4: Talks and direct meetings

Date	Presenters	Title	Event	Location
June 24,	Alexander	Waterproof Amsterdam &	Amsterdam Economic Board	Amsterdam
2016	Overtoom (TTN)	CPaaS.io	presentation, led by mayor of	
			Amsterdam	
Oct. 6, 2016	K. Shindo (YRP)	CPaas.io:City Platform as a	6th Japan – EU Symposium on ICT	Tokyo
		Service – Integrated and Open	Research and Innovation	
Oct. 28, 2016	Alexander	Waterproof Amsterdam &	Meeting with Municipality of	Amsterdam
	Overtoom (TTN)	CPaaS.io	Amsterdam - smart city	
			representatives	
Nov. 28,	S. Haller (BFH)	CPaaS.io – Ein Horizon 2o2o	Steering Group Meeting of Smart	Bern
2016		Projekt zur Entwicklung einer	Capital Region Switzerland	
		städtischen		
		Innovationsplattform		
Dec. 20, 2016	Alexander	TTN webinar - what can you do	Online Webinar	Online
	Overtoom (TTN)	with LoRaWAN		Webinar
Jan. 10, 2017	M. Strohbach	CPaas.io:City Platform as a	VaVeL consortium plenary meeting	Darmstadt
	(AGT)	Service – Integrated and Open		

Date	Presenters	Title	Event	Location
April 11,	S. Haller (BFH),	What role does an open city	Webinar series by the EU-Japan	Online
2017	M. Strohbach	platform play in creating smart	Centre for Industrial Collaboration	Webinar
	(AGT), C.	city innovation?		
	Ishikawa (YRP)			
May 2, 2017	S. Haller (BFH)	CPaaS.io – Ein Horizon 2o2o	12. Workshop of IG Smart Cities	Bern
		Projekt zur Entwicklung einer	Schweiz	
		städtischen		
		Innovationsplattform		
June 13&14	E. Kovacs, S.	Umweltbewusstes Handeln	Düsseldorf 2020 – Creating a Smart	Düsseldorf
	Gessler (NEC)	wie können Apps und	City	
		Stadtdaten unser Verhalten		
		ändern und die Ökobilanz der	http://www.digihub.de/smartcity/	
		Stadt verbessern.		
June 28,	S. Haller (BFH)	Wann ist eine City "smart"?	3rd OGD Round Table, Swiss	Bern
2017			Federal Archives	

2.7 Press releases

As the European coordinator, the BFH issued a press release in English and German shortly after the project had started (see Figure 5). We received quite a good response from media, resulting in a number of reports, as shown in section 4.



Berner Fachhochschule BFH-Zentrum Digital Society Brückenstrasse 73 3005 Bern Telefon +41 31 848 44 16 stephan.haller@bfh.ch

Press Release

24. August 2016

An open platform for the Smart City

The E-Government Institute of the Bern University of Applied Sciences has won an important EUfunded project. Together with partners in Europe and Japan a platform is being developed, on which open government data combined with the Internet of Things is provided to a variety of users.

The digital society is bringing about many changes, especially in the urban environment. To address these challenges and shape them in a positive way, the research project CPaaS.io (City Platform-as-a-Service - integrated and open) has started this July. This collaborative project between Europe and Japan aims to provide cities a cloud-based urban data infrastructure, which is an important foundation for the development towards a smart city. The platform links technologies like the Internet of Things, Big Data, and Cloud with Open Government Data (OGD) and Linked Open Data in order to enable a multitude of different applications. Therefore novel services can be provided either by the city itself or by third parties to the public as well as to businesses. This allows for example managing large events better: In which direction are visitors streaming? How can public transportation dynamically be adapted to respond to the current situation? How can authorities react to hazardous situations, accidents, sudden weather changes etc.? The practical relevance of the platform will be validated with cities that have already experience in the Open Data area. In Europe these are Amsterdam, Murcia and Zurich, and in Japan Sapporo, Tokyo and Yokosuka.

The project will be running for 2.5 years and is being coordinated by the Bern University of Applied Sciences in Europe, and by the YRP Ubiquitous Networking Laboratory in Japan. The European coordinator, Stephan Haller, faculty of economics of the Bern University of Applied Sciences, sees several benefits of such a platform: "It contributes strongly to urban innovation and strengthens the attractiveness and competitiveness of the city. By providing open data, it possibly attracts additional businesses. And the platform empowers the individual citizen to gain control about his or her data and to define, who is allowed to use which data how."

Additional partners in the project are in Europe AGT, NEC, Odin Solutions, The Things Network and the University of Surrey, and in Japan ACCESS Co., Microsoft Japan, Ubiquitous Computing Technology Corporation and the University of Tokyo.

More information is available at: http://www.cpaas.io

Contact

Prof. Stephan Haller Berner Fachhochschule BFH-Zentrum Digital Society Brückenstrasse 73 3005 Bern Telefon direkt +41 31 848 44 16 E-Mail: stephan.haller@bfh.ch



The CPaaS.io project has received funding from the European Union's Horizon 2002 resarch and innovation programme (grant agreement n° 723076) and NICT from Japan (management number 18302). The European Commission and NICT have no liability in respect of this document, which is merely representing the view of the project consortium.

Figure 5: First CPaaS.io Press Release.

3 Standardisation Activities

NEC is chairing the ETSI Industrial Specification group on "Context Information Management" (ETSI ISG CIM). This group is defining the next version of the FIWARE NGSI API. This API is a core API also used by CPaaS.io. Experiences from the project will be included into the specification work. Furthermore, ETSI ISG CIM will be defining a Smart City data model, another area in which CPaaS.io will contribute. A first collaboration with ETSI ISG CIM is targeted for the July 19th, 2017 in Berlin during their public consultation of EU research projects.

As part of CeBit 2017 Smart City Forum AGT participated at the 15th Expert Talk Seminar of the Smart City Forum in which the DIN SPEC 91357 Reference Architecture Model "Open Urban Platform" (OUP) was presented by Bernhard Kempen from DIN. The work is related to the H2020 project Espresso⁶ and highly relevant for CPaaS.io.

4 Mentions in the Press

Table 5 shows all press listings of CPaaS.io that we are aware of. Reports about the project have been published in regional and local newspapers, technical journals, as well as online ICT news portals. The Japanese TRONWARE magazine published a 12-page special feature about CPaaS.io, including project description as well as a talk between the two project coordinators, Prof. Ken Sakamura and Prof. Stephan Haller (Figure 6).

Table 5: CPaaS.io in the press.

Date	Magazine/Paper/	Lang.	Article Title and URL
24.08.2016	Inside-it.ch	DE	Fachhochschule Bern baut die "City-Platform-as-a-Service"
			http://www.inside-it.ch/articles/44780
25.08.2016	CE today	DE	Berner Fachhochschule kooperiert für Smart-City-Projekt
			http://www.cetoday.ch/de-CH/News/2016/08/25/Berner-
			Fachhochschule-kooperiert-fuer-Smart-City-Projekt.aspx
01.09.2016	Smart Mobility	EN	Who will be responsible for leading and co-ordinating future smart
	Summit Blog		city projects?
			http://www.smartmobilitysummit.com/blog/who-will-be-
			responsible-for-leading-and-co-ordinating-future-smart-city-
			projects?utm_source=newsletter%201st%20september%202016&u
			tm_medium=email&utm_content=Who%20will%20be%20responsi
			ble%20for%20leading%20and%20co-
			ordinating%20future%20smart%20city%20projects?
27.09.2016	JDN - Journal du Net	FR	L'Europe et le Japon créent une plateforme open data pour la
			smart city
			http://www.journaldunet.com/economie/services/1185199-l-
			europe-et-le-japon-creent-une-plateforme-open-data-pour-la-
			smart-city/

⁶ http://espresso-project.eu/

H2020 EUJ-02-2016 CPaaS.io Page 12 of 15

Date	Magazine/Paper/	Lang.	Article Title and URL
25.08.2016	C36daily ICT News	DE	Schweiz: Fachhochschule Bern baut die «City-Platform-as-a-
23.00.2010	Coddily ICT News	DL	Service»
			https://twitter.com/C36daily
25.08.2016	Der Bund	DE	Mit EU-Projekt den urbanen Raum besser planen
25.08.2016	IT Markt Online	DE	Berner Fachhochschule kooperiert für Smart-City-Projekt
23.06.2010	TI Warkt Offilite	DE	,
			http://www.it-markt.ch/news/2016-08-25/berner-fachhochschule-
25.00.2016	Karana wa alima a masira	DE	kooperiert-fuer-smart-city-projekt
25.08.2016	Kommunalmagazin	DE	Berner Fachhochschule baut Plattform für die Smart City
	Online		http://www.kommunalmagazin.ch/berner-fachhochschule-baut-
25 22 224 5	N		plattform-fuer-die-smart-city
25.08.2016	Netzwoche Online	DE	Berner Fachhochschule kooperiert für Smart-City-Projekt
			http://www.netzwoche.ch/news/2016-08-25/berner-
			fachhochschule-kooperiert-fuer-smart-city-projekt
05.10.2016	TRONWARE	JP	CPaaS.io プロジェクト (Special Feature about CPaaS.io)
			http://www.tron.org/ja/2016/10/post-2169/
05.12.2016	Murcia Economia	ES	la-murciana-odins-participa-en-una-plataforma-euro-japonesa
			http://murciaeconomia.com/not/47471/la-murciana-odins-
			participa-en-una-plataforma-euro-japonesa
30.09.2016	Cities Today	EN	Europe and Japan collaborate on smart cities
			https://cities-today.com/europe-japan-collaborate-smart-cities
09.09.2016	ITUblog	EN	Europe and Japan collaborate on smart cities with cloud-based
			'CPaaS.io'
			https://itu4u.wordpress.com/2016/09/09/europe-and-japan-
			collaborate-on-smart-cities-with-cloud-based-cpaas-io/



都市の魅力を高める

坂村 日本とヨーロッパ (氏!) が共 同でCPaaS.toというプロジェクト をはじめることになり立した。ヨー めているのが本日対談させていただ くステファン・ハラー (Stephan Haller) さんです。一方、私は、日本 側の代表を務めています。この対談 をとおして、プロジェクトの背景や 目的などを紹介したいと思います。 私とハラーさんとは10年以上前か らの知り合いですが、今回のヨー ロッパと日本の共同プロジェクトを 適して都市が抱える多くの問題の解 技につながればと思っています。 このプロジェクトが対象としているのは 都市です。都市が抱えている問題の多 くはヨーロッパ、日本で共通している。 それを新しい情報適信技術(ICT:

TRONWARE VOL. 161

Information and Communication Technology) を使ったフレームワー することを考える。ICTの技能の中 でも私たちが特に往目しているのが ロッパ製のプロジェクトの代表を將 foT (Internst of Things) をはじめ とした最新の技術です。そうしたも のをフル哲用し、ヨーロッパと日本 が持っている都市の問題を解決でき IoT技術を使ったセンサーデータや ないかと思っています。

> ハラー 私はこの共同プロジェクト をチャンスととらえています。都市 をはじめとして世界でデジタル化が まな新しいサービスを作ることで、 その都市の魅力を重めることができ 集めたい。それが目的の一つです。

振材 今困っていることを解決する だけでなく、都市を先に進めるため ク、基盤を作ることで効率よく解決 にブラットフォームをつくり、それ を使いイノベーションを起こし新た に発展させる。それが我々の大きな 目的ということですね。

> ハラー ここでいうデータとは、 オープンデータであり、それがブ ラットフォームから提供される必要 があります。

坂村 ブラットフォームというの 進むと大きなチャンスが生まれてき は、オープンデータやセンサーデー タなどを全部統合してそれを使って 作り、その上にそれを使ったさまざ 新しいサービスをつくるためのフ レームワーク(枠組み)です。フレー ムワークなので、たとえばいくつか る。こうしてビジネス資源を都市に のサービスを連携させるとか、マッ シュアップさせるとか、そういうこ

Figure 6: Excerpt from TRONWARE report about CPaaS.io (Source: TRONWARE magazine)

Future Plans

No significant changes are required in the general dissemination strategy. We will continue to publish scientific papers at relevant conferences, to talk to city officials and other interested parties and interest groups, and to regularly update the project web site.

Some activities will however be intensified: Firstly, the project intends to more closely cooperate with other ongoing projects and activities, in particular the Open and Agile Smart Cities initiative (OASC⁷) and

⁷ http://www.oascities.org/

related projects, as they share many objectives with CPaaS.io. Synergies will have to be identified and the strengths of the different initiatives will have to be merged.

Secondly, active event participation will increase as the project will have already more results to demonstrate. At the 2017 TRON Symposium in Tokyo in December, we plan to hold a city stakeholder workshop. Other potential targets for event participation are CeBIT 2018 as well as the IoT Week 2018.

And finally, more needs to happen regarding standardisation. The project will be trying through its NEC representatives to bring its work on data models and ontologies to the ETSI ISG CIM. Another target is the ITU-T Study Group 20 "Internet of things (IoT) and smart cities and communities (SC&C)".