

The value of an SDI to a digital building permission

Case: City of Hyvinkää

Jaana Mäkelä, Spatineo

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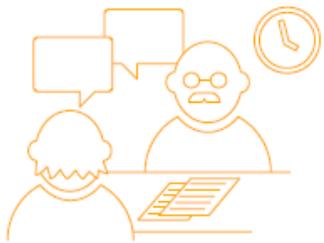
INSPIRE Conference 2017, the 7th of September



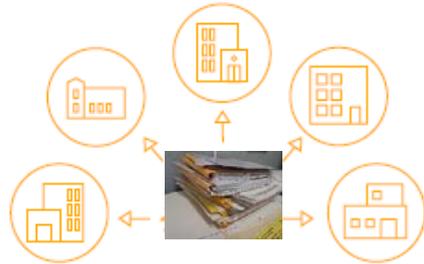
FROM PAPER-BASED TO A DIGITAL BUILDING PERMIT PROCESS

Building inspection units in Finland get over **1,5 million customer contacts** and handle over **100 000 permits** per year.

THE TRADITIONAL WAY



Visits to municipality service desk



You deliver printouts to different offices

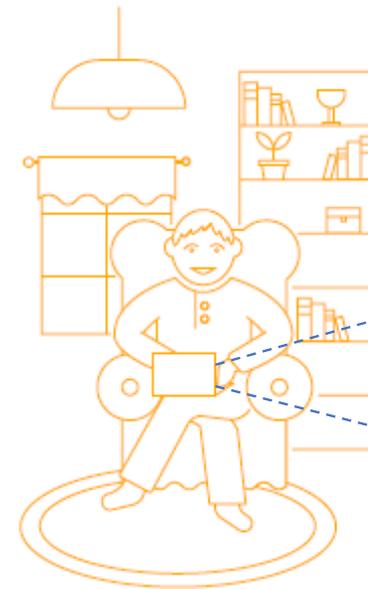


You fill information several times to different forms

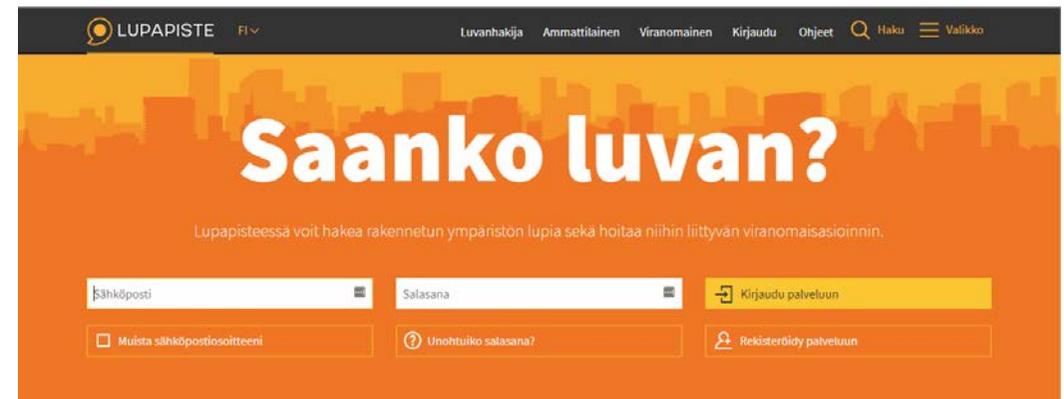


You spend a lot of time in communicating with authorities and in following up the project

THE NEW WAY



- A national web service
- Gathers citizens, municipal authorities, architects and other construction business experts at one web address
- Jointly defined and developed by the Ministry of Environment, municipalities and Evolta
- Includes a help desk
- All documents are digital and also archived
- Lupapiste.fi gets all spatial information from Inspire WMS and WFS



**The service is available
24/7/365**

HYVINKÄÄ IS A SPATIALLY ENABLED CITY– all users have easy access to spatial data

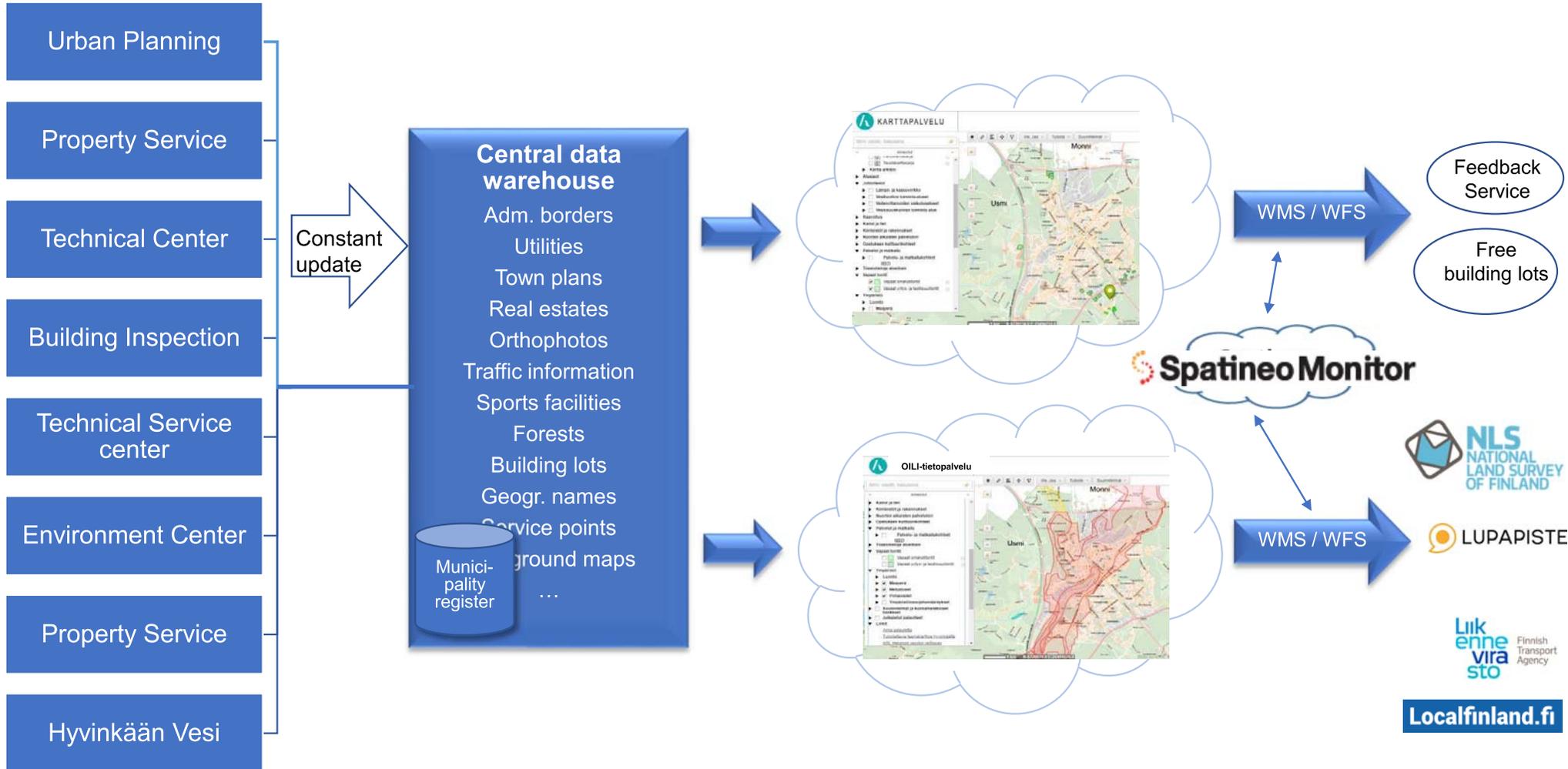


Production and maintenance of spatial data in operational units

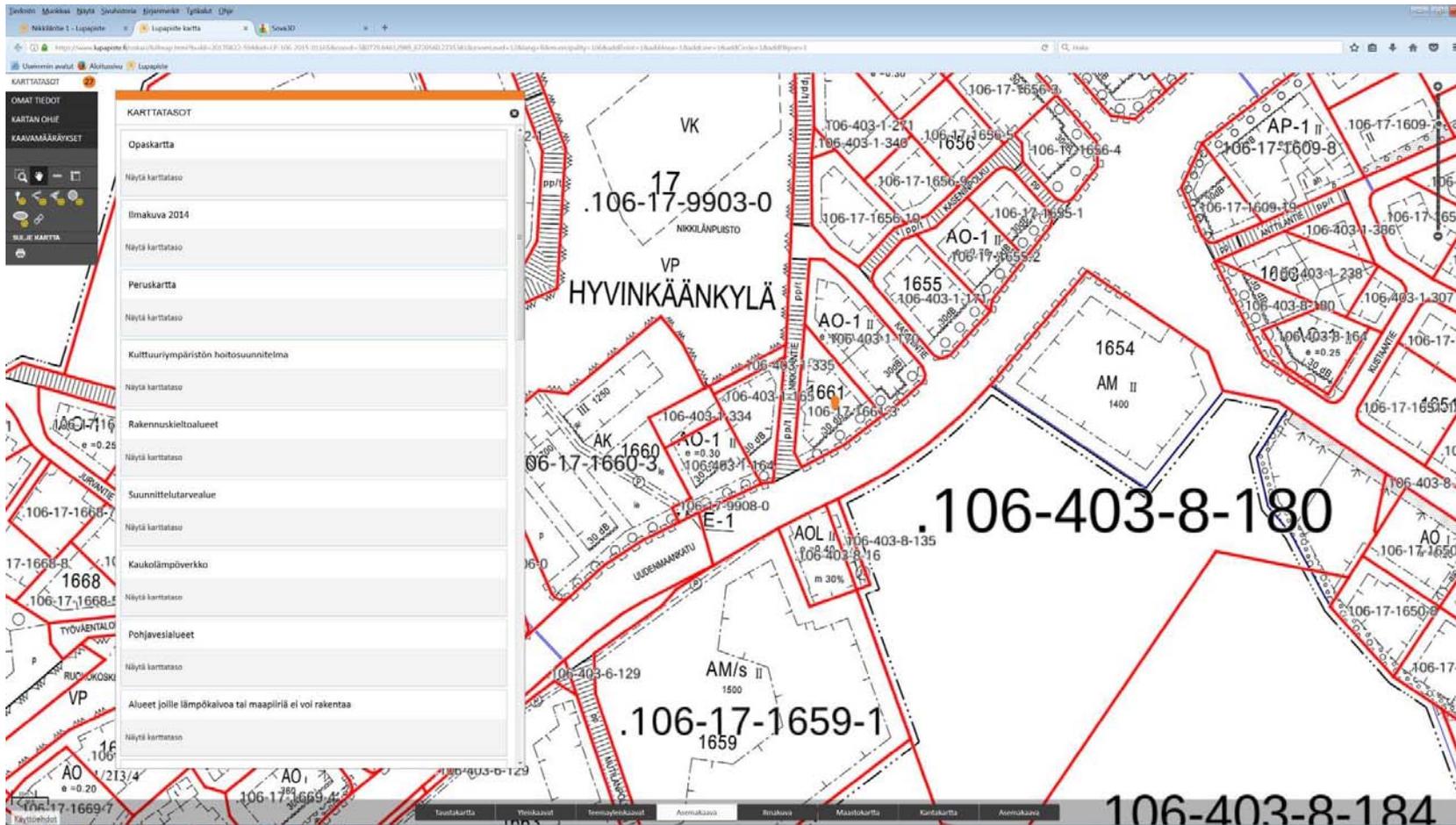
Data saved for shared use

Publishing of spatial data to internal and external users

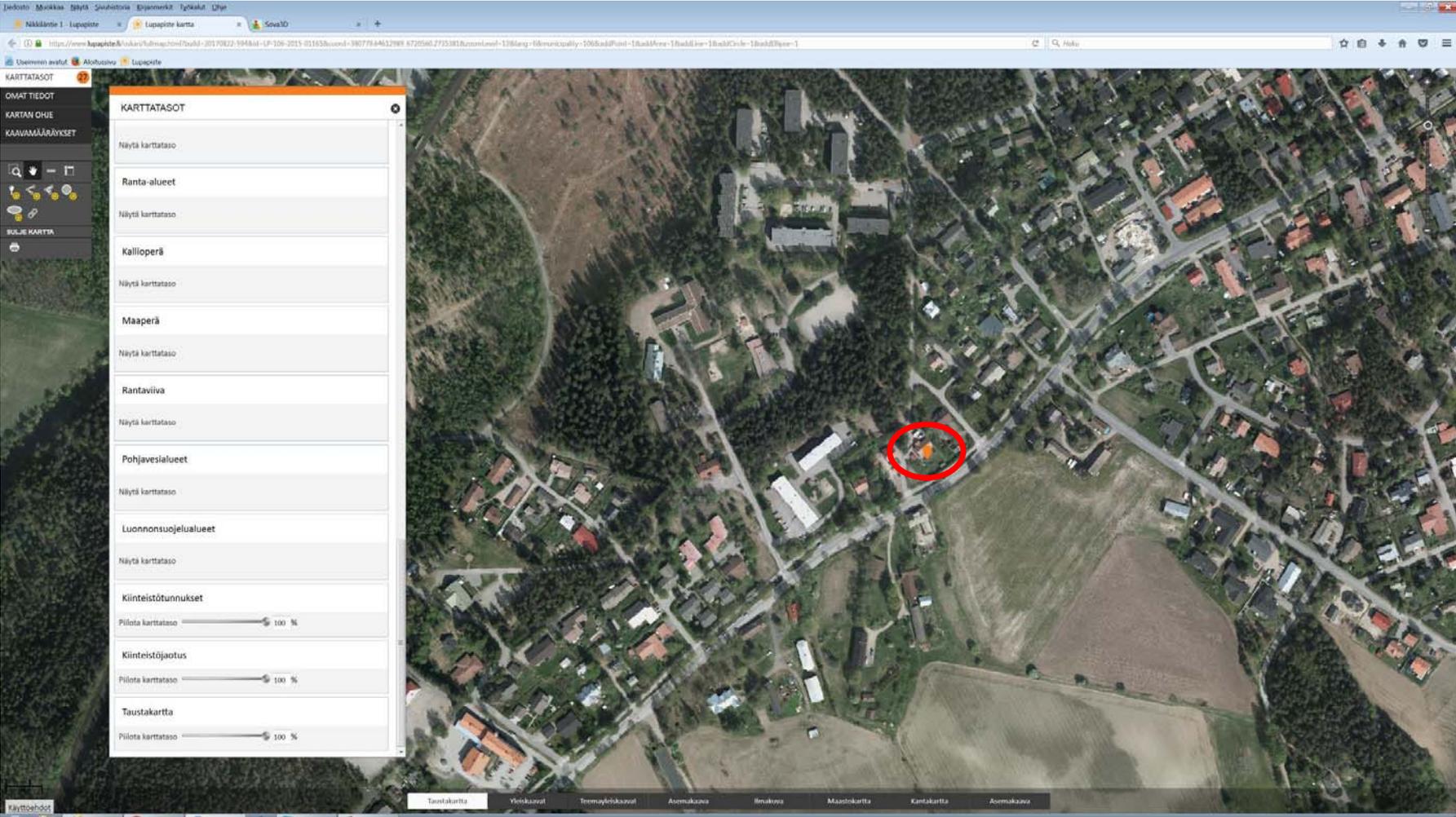
Spatial data delivery to stakeholders using INSPIRE standards



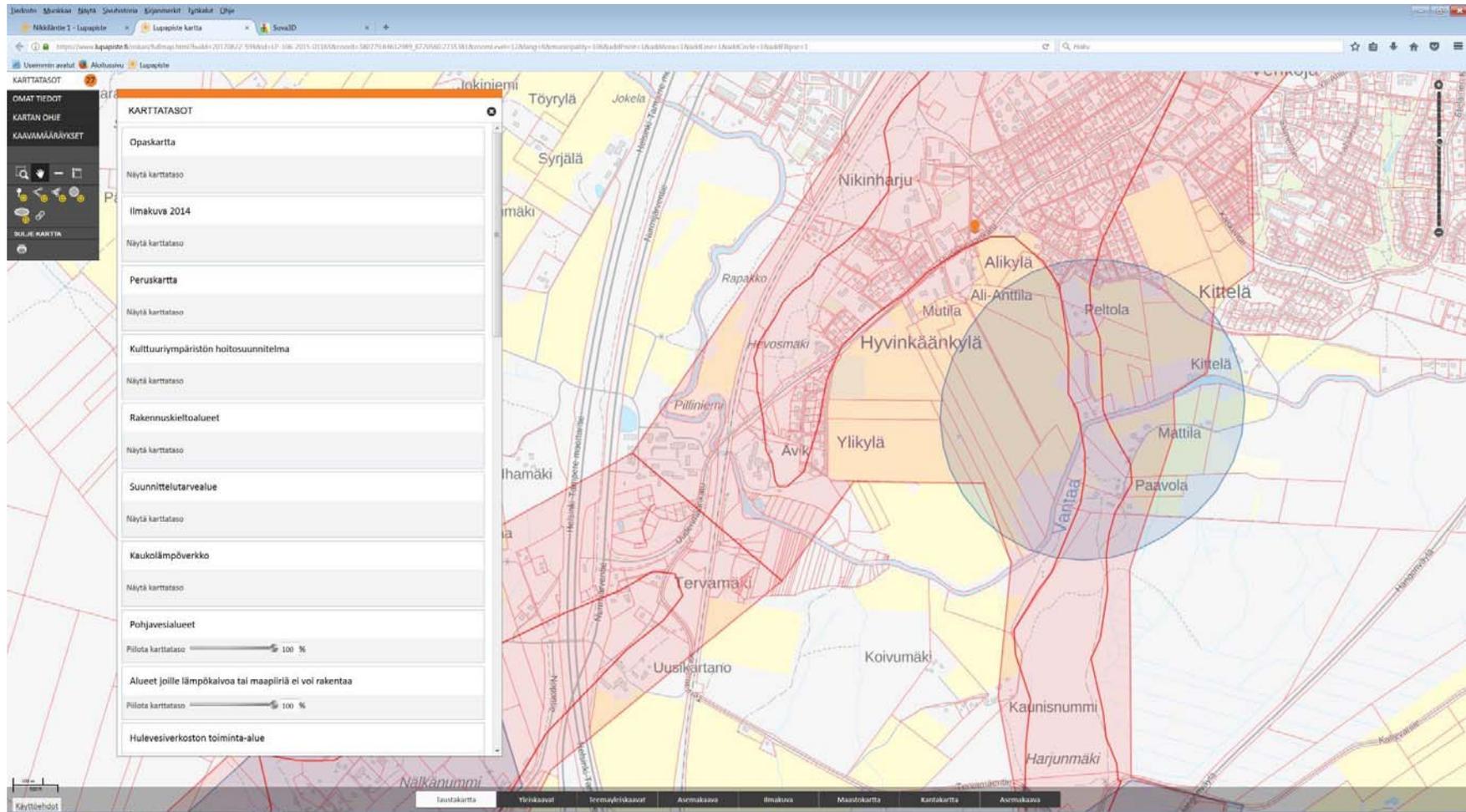
ALL ESSENTIAL SPATIAL INFORMATION IN THE SDI IS AVAILABLE IN LUPAPISTE



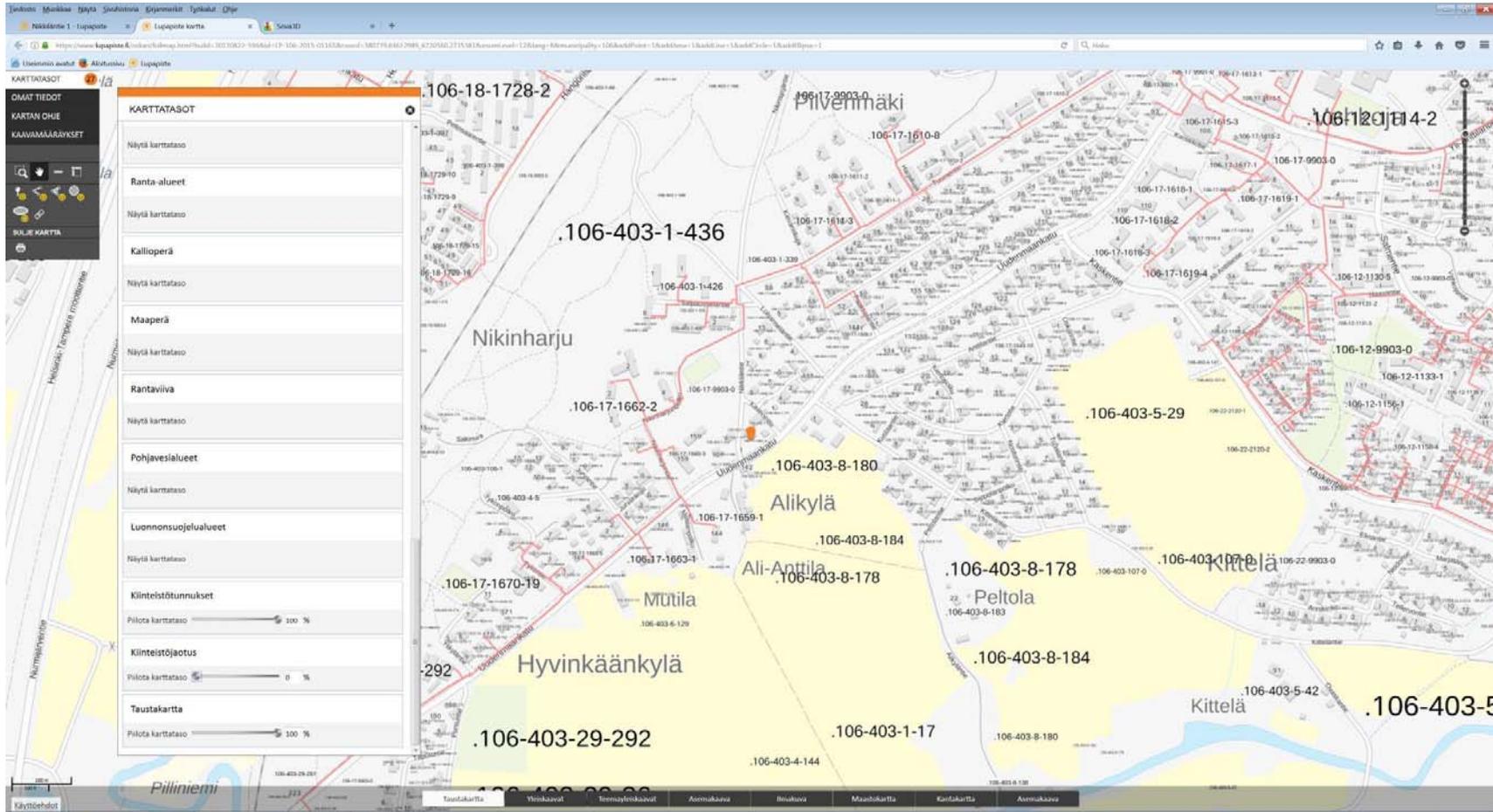
ALL ACTORS DISCUSS ABOUT THE SAME BUILDING OBJECT



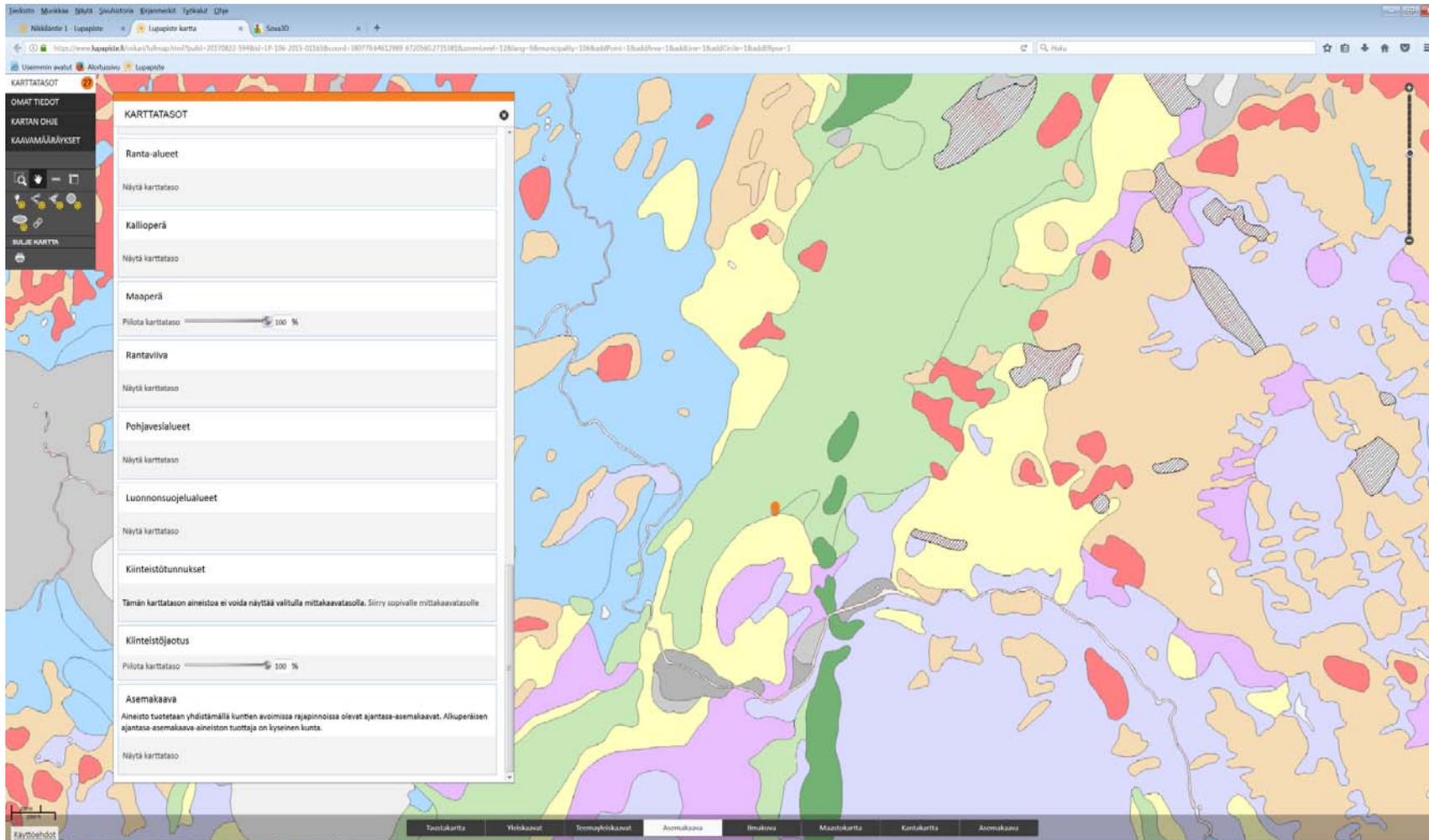
IS THE NEW BUILDING ON AN AREA THAT NEED AN EXCEPTIONAL PERMISSION?



HOW THE CONNECTIONS TO WATER AND ENERGY NETWORKS ARE MANAGED?



GEOLOGICAL INFORMATION SHOW THE REQUIREMENTS FOR THE BUILDING





Building information model (BIM) embedded in 3D city model platform, which has been integrated to Lupapiste.fi

FLUENT INTERACTION BETWEEN ALL ACTORS – ALERTS OF NEW INFORMATION



The screenshot displays the LUPAPISTE web application interface. The main content area shows a planning application for 'Nikkiläntie 1' (Autokatos tai muun katoksen tai vajan (esim. grillikatos, venevaja) rakentaminen). The application status is 'Hakemus jätetty' (Application submitted). The application details include: Käsittelyssä (Being processed), Kiinteistönumero: 106-17-1061-3, Asiointikunta: Hyvinkää, Hakemus jätetty: 20.11.2015, Asiointinumero: LP-106-2015-01185, Käsittelijä(t): Valvonta Rakennus (Lupa-asiat), and Muut toimenpiteet: S = Uuden varaston, autotallin tai muun talousrakennuksen rakentaminen. The application is currently in the 'Keskustelu' (Discussion) phase.

The 'Keskustelu' (Discussion) section on the right shows a list of messages:

- Selin Mari (valtuutettu hankkeelle) 25.11.2015 13:44
- Nurminen Taru (valtuutettu hankkeelle) 25.11.2015 12:40
- Toikka Arto (hakemuksen tekijä) 25.11.2015 08:42
- Toikka Arto (hakemuksen tekijä) 25.11.2015 08:10
- Selin Mari (valtuutettu hankkeelle) 24.11.2015 15:13
- Toikka Arto (hakemuksen tekijä) 24.11.2015 15:05
- Vastamäki Jouni (viranomainen) 24.11.2015 14:30
- Vastamäki Jouni (viranomainen) 24.11.2015 14:28
- Vastamäki Jouni (viranomainen) 24.11.2015 14:16
- Vastamäki Jouni (viranomainen) 20.11.2015 09:45

The 'SUUNNITELMAT JA LIITTEET' (Plans and Attachments) section shows a list of attachments, including 'Rakennuspaikan liitteet' (Site plan attachments). The 'Liitteet' (Attachments) table is partially visible:

Tila	Nro	Tyyppi / Sisältö / Milloin tarvitaan	Tiedosto	Ei tarpeen / Muokattu	OK	Tark.	Polsta
		Rakennuspaikan liitteet					

HYVINKÄÄ AND RESIDENTS HAVE GAINED GREAT BENEFITS



“Lupapiste and our SDI have made my work 50% more efficient because all essential information is straight away available”



*Arto Toikka
Building Inspector*

“Fluent interaction with the applicant enable the supplement of shortcomings”

“At the best case if all documents are correct I can grant the building permission during the same day”

“All actors can follow the stage of the building permission process”

“Nature, time and money is saved when the applicant do not have to print out documents, at worst 3 times”

“I can easy organize my tasks and add comments to the queue”

“The best is when spatial information is applied to different application areas”



*Päivi Tiihonen
Information Service Manager*

“The monitoring of our spatial web services ensures the continuous quality of our 24/7 information service”

“Because of spatial web services information is always available up-to-date both for authorities and customers”

“Thanks to INSPIRE services information is not copied manually from one system to another”

“We want to offer better service to our customers”

- Today, 100% of the building permit applications (400 per year) in Hyvinkää come through Lupapiste.fi
- At best 90% faster processing times
- Digital services that meet user needs are built on SDIs that are reliable and have rich content



Additional information:

[About the SDI and the digital building permit process in Hyvinkää:](#)

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Arto Toikka, arto.toikka@hyvinkaa.fi

[About how to make SDIs widely used and reliable](#)

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[About Lupapiste.fi](#)

evolta.fi/en/