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Slim Verbinden

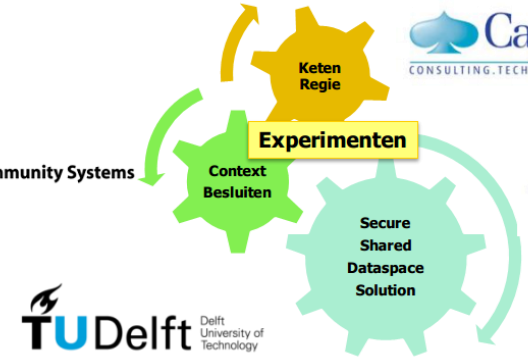
Studio Veiligheid

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

ASK Community Systems

THALES

TU Delft Delft University of Technology



Niek Wijngaards (THALES)
Peter de Bruijn (Studio Veiligheid)

THALES

Slim Verbinden

www.slim-verbinden.nl

- The work described in this presentation provides an overview of the "Slim Verbinden" project, that is sponsored by "Programma Innovatie voor Maatschappelijke Veiligheid" by Agentschap.nl, project no. IMV1100038. The authors thank their colleagues in the project: Fons Panneman and Kees Zeeman (from Studio Veiligheid), David Mobach, Reinier Timmer, Thomas Quillinan, Sorin Iacob, Gerard Toonstra (from Thales Research & Technology), Frances Brazier, Michel Oey, Martijn Warnier, Sander van Splunter, Zülküf Genç, and Faridah Heidari (from Delft University of Technology, TBM), Catholijn Jonker, Maaike Harbers and Joost Broekens (from Delft Uni. of Technology, MMI), Duco Ferro, Dennis Dortland, Tymon de Jonge, Sven Stam, Ludo Stellingwerf and Xiaoyu Mao (from Ask Community Systems), Kees Jan Buter, Renato Bianchessi, Erik van der Berg and Adrie de Kooter (from Cap Gemini), and Robert Kieboom, Stephan Miegies and Ming Chan (from CityGIS). The authors thank the experts from public safety & security organizations and private companies for their contributions to the use-case and constructive feedback. The authors are grateful for the constructive comments of the reviewers.

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Challenge

Increase ease of sharing information

- Industry, Government, Police, Firefighters, Municipality, Media, …

Information sharing in open distributed systems

- Dynamic leave & join of (new) parties

Information sharing while retaining control

- When, who, where, how, what

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Obstacles for Information Sharing

Sharing information?

That feels risky!

- Why share?
- Who will read?
- What will they do?
- Can I stop sharing?
- Why should I share everything?
- Who decides what I should share?

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Approach

Sharing…

- Based on trust among communities
- Information provider is in control of sharing towards communities
- Community controls individual access
- Escalation mechanisms
- Audit logs

"Control the lifecycle of the information"

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Overview

Control & Direct

- Distinguish ‘communities’ with members from different agencies

Your policies

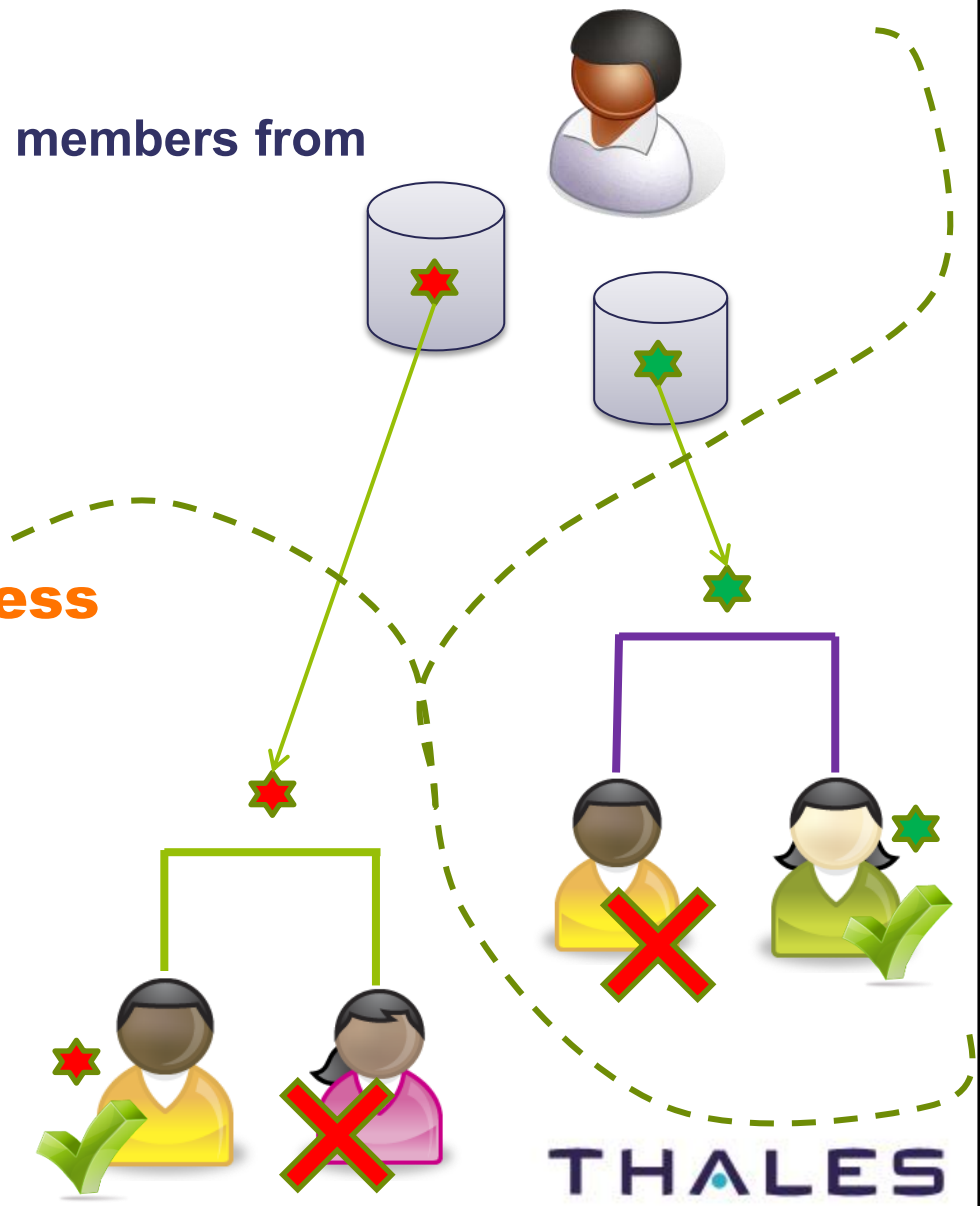
- Which information to share
- Access for which community

Each community with access

- (Un)Subscribe to topics
- Which roles get access
- What operations are allowed

Teamwork & cooperation

- Do policies allow cooperation?



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Explanation: Context-based information

Context-based information provisioning

- Objective, location, task, role, …
- Detailed sensor-information: gps, noise, …
  - Using smartphones / devices

Explanation

- Enrich information
- Prevent un-ease among personnel
  - “You are under the plume and safe for about an hour, then you should leave. Source: KNMI.”
  - “You are not under the plume, so you can stay on your position. Source: KNMI.”

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Cross-agency Data-sharing: Private-public Organisations

"Slim-Verbinden" use-case: small-scale data-sharing

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Demonstrator

Multi-agency data-sharing for crisis management

- Real threat analysis of Tata Steel factory
- Sharing information between Industry, police, firebrigade, municipality

Demonstrator versions

1) January 2012 version
2) June 2012 version (shown in these slides)
3) February 2013 version (upcoming final)

Studio Veiligheid

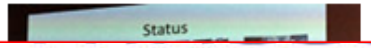
Slim Verbinden Demodag 21 juni

Persoonlijk verslag van Jan-Willem van Aalst, Imergis

Dit verslag van Jan-Willem van Aalst (Imergis) is een persoonlijke samenvatting en impressie van de Slim Verbinden Demodag op 21 juni 2012 in Delft. In de tekst zitten observaties en interpretaties. *N.B. Het verslag geeft geen standpunten weer van opdrachtgevers van Imergis.* Vrij te verspreiden, mits ongewijzigd.

Op 21 juni 2012 organiseerden Stichting Studio Veiligheid en Thales vanuit het innovatieprogramma "Slim Verbinden" een demodag over het slim gedistribueerd verbinden van alle betrokkenen in een calamiteiten scenario. Zo'n 25 deelnemers zagen de informatie stromen terwijl het scenario zich op de schermen ontvouwde. Daarna discussieerden ze over de uitdaging om prototypes tot productie en beheer te brengen in een wereld waar allerlei partijen in complexe ketens samenwerken.

Stichting Studio Veiligheid richt zich op de coördinatie van keteninnovaties in transport en logistiek, verkeersmanagement, handhaving en toezicht, en crisisbeheersing. Het doel is om tot minder schade en meer economische groei te komen door het slim gebruik van gegevens en informatietechnologie. Binnen het onderzoeksprogramma "Slim Verbinden" worden daartoe meerdere experimenten opgezet. Eén van die experimenten gaat over het versnellen van incidentberichten tijdens een calamiteitenscenario op het terrein van Tata Steel in IJmuiden, gemeente Velsen: het zgn. "Tata Steel scenario".



Gastheer Niek Wijngaards van het Thales D-CIS lab in Delft,

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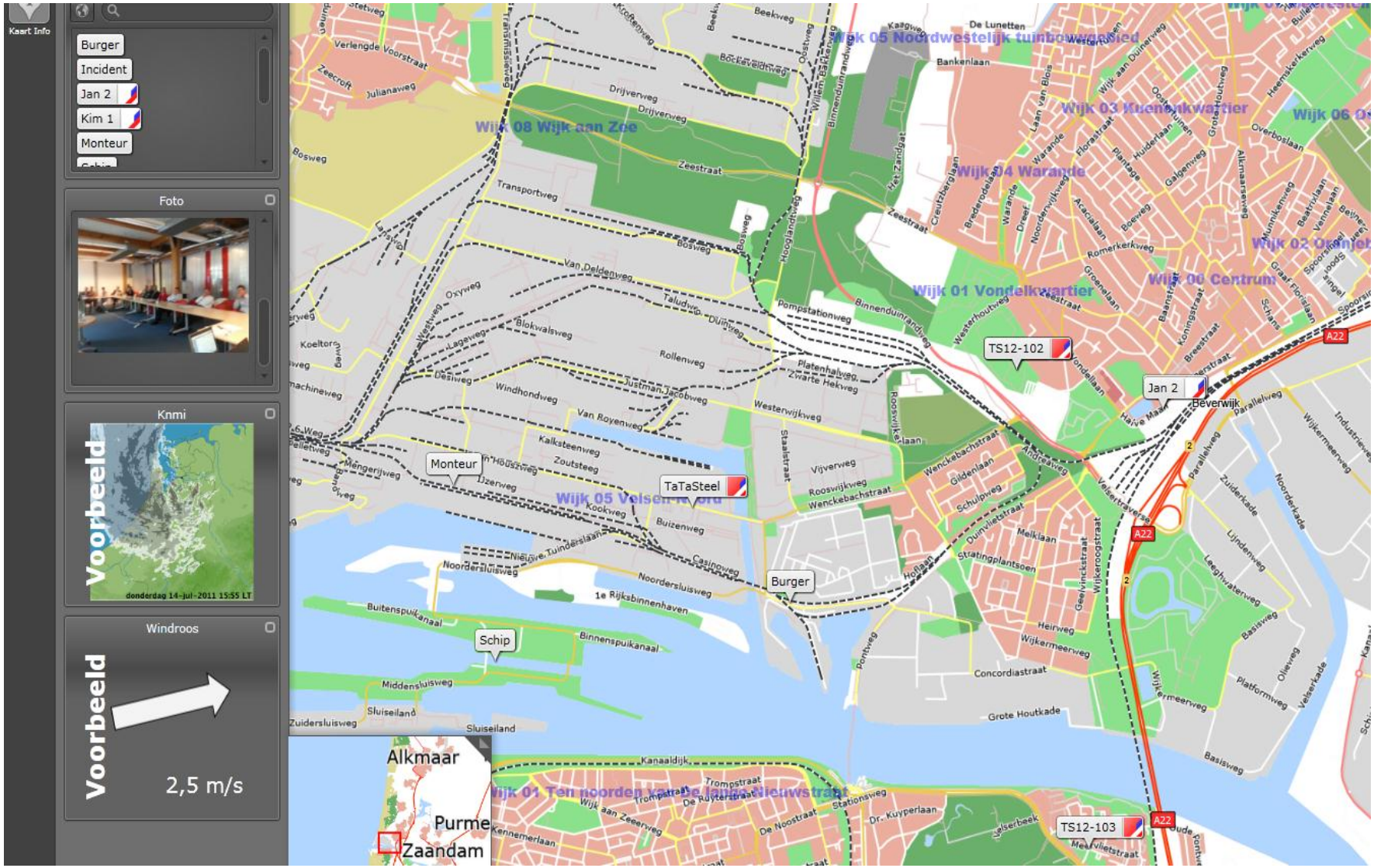
1. Gasleak spotted: Civilian + Nuon



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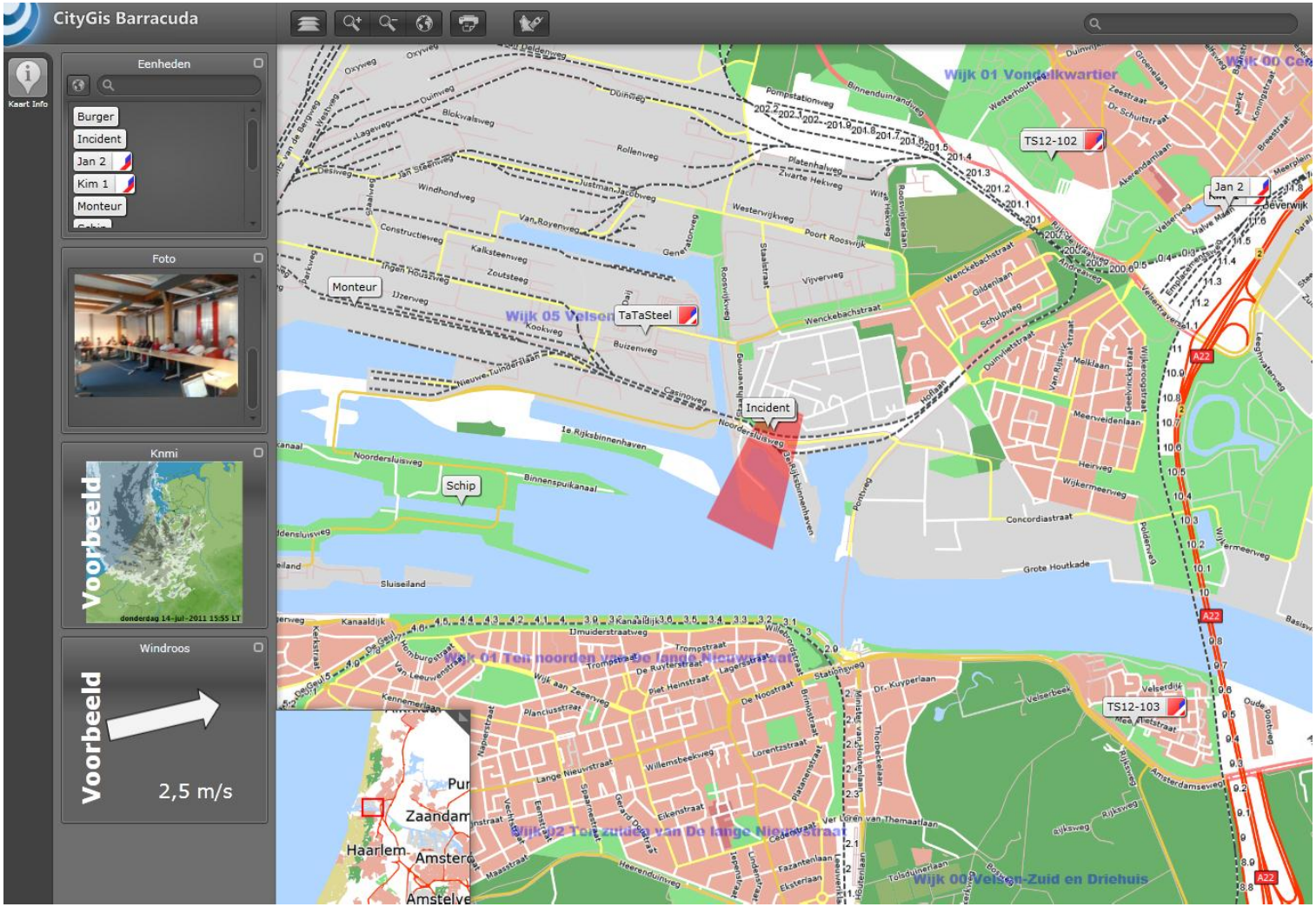
2. Plume shape (1st)



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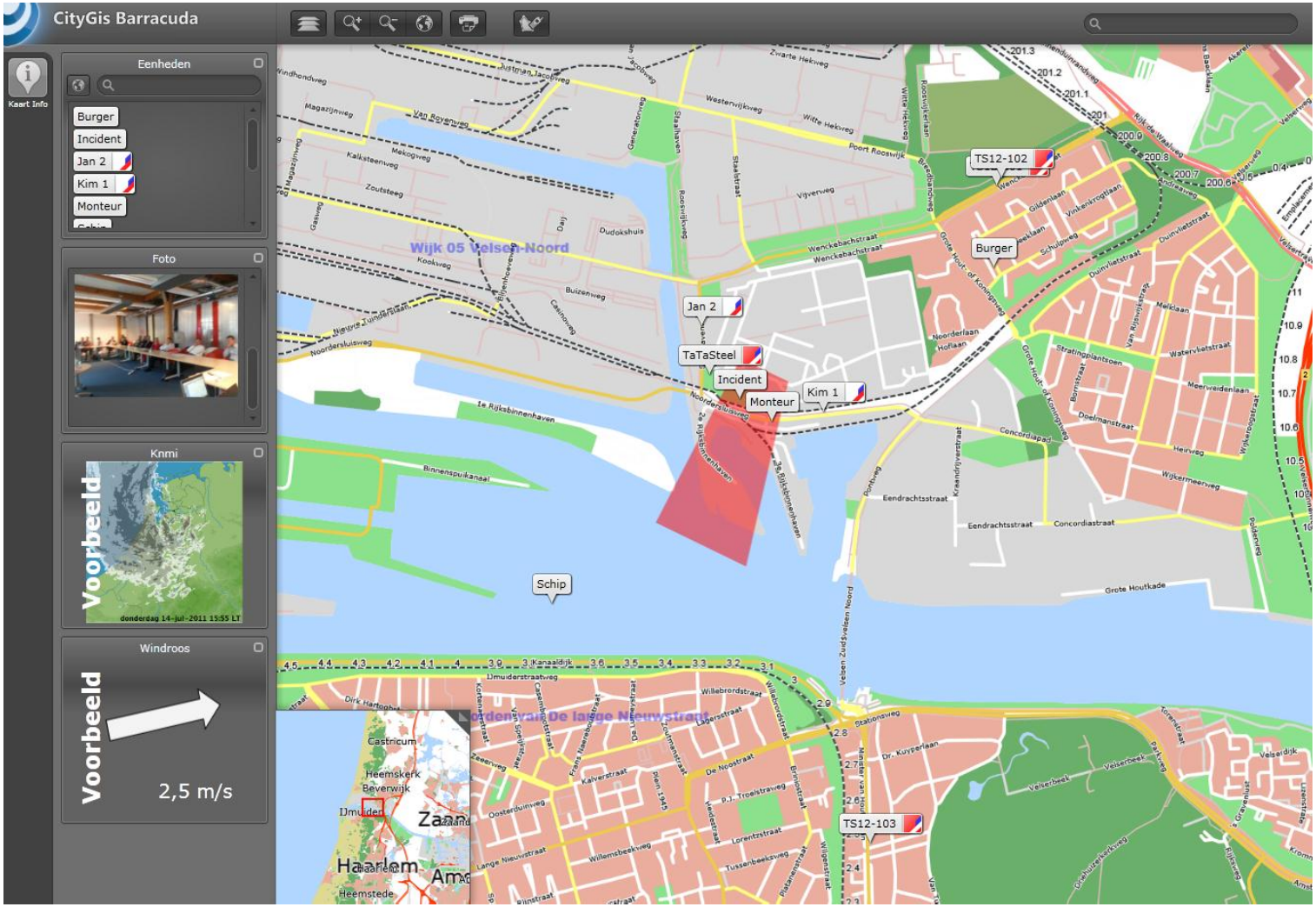
3. Police, FireBrigade, TataSteel at location



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4. Website of Municipality

Gemeente Velsen / Public Portal

Actueel | Inwoners | Toeristen | Bedrijven

10:20 Lek gasleiding wordt gerepareerd

Bij TATA is er een lek in een gasleiding. Bewoners in de Heidebuurt, de Lagersbuurt, en de Stadhuisbuurt wordt geadviseerd uit de buurt te blijven en ramen en deuren te sluiten. Het scheepvaartverkeer is inmiddels gewaarschuwd. De reparatietijd wordt geschat op nog anderhalf uur. Hou deze website in de gaten voor meer informatie.

De Gemeente Velsen

De gemeente Velsen vormt het hart van de IJmond-regio. Met een unieke ligging, een prima infrastructuur en voorzieningen, heeft de gemeente inwoners en bedrijven veel te bieden.

Meer informatie »

RSS

- Actueel
- Raadsvergaderingen
- Burgernet Kennemerland
- Burgerwijzer

Hulp & Ondersteuning

Overal waar mensen wonen en werken, kan plotseling iets voorvallen waardoor de dagelijkse gang van zaken ontregeld raakt. Het kan gaan om een klein incident of om een groot incident, waarbij slachtoffers kunnen vallen. Wie moet je dan bellen?

Veelgestelde Vragen (FAQ) »

Contact

Phone: +31-152587110
Email: info@gemeente.nl

Online Contact Formulier »

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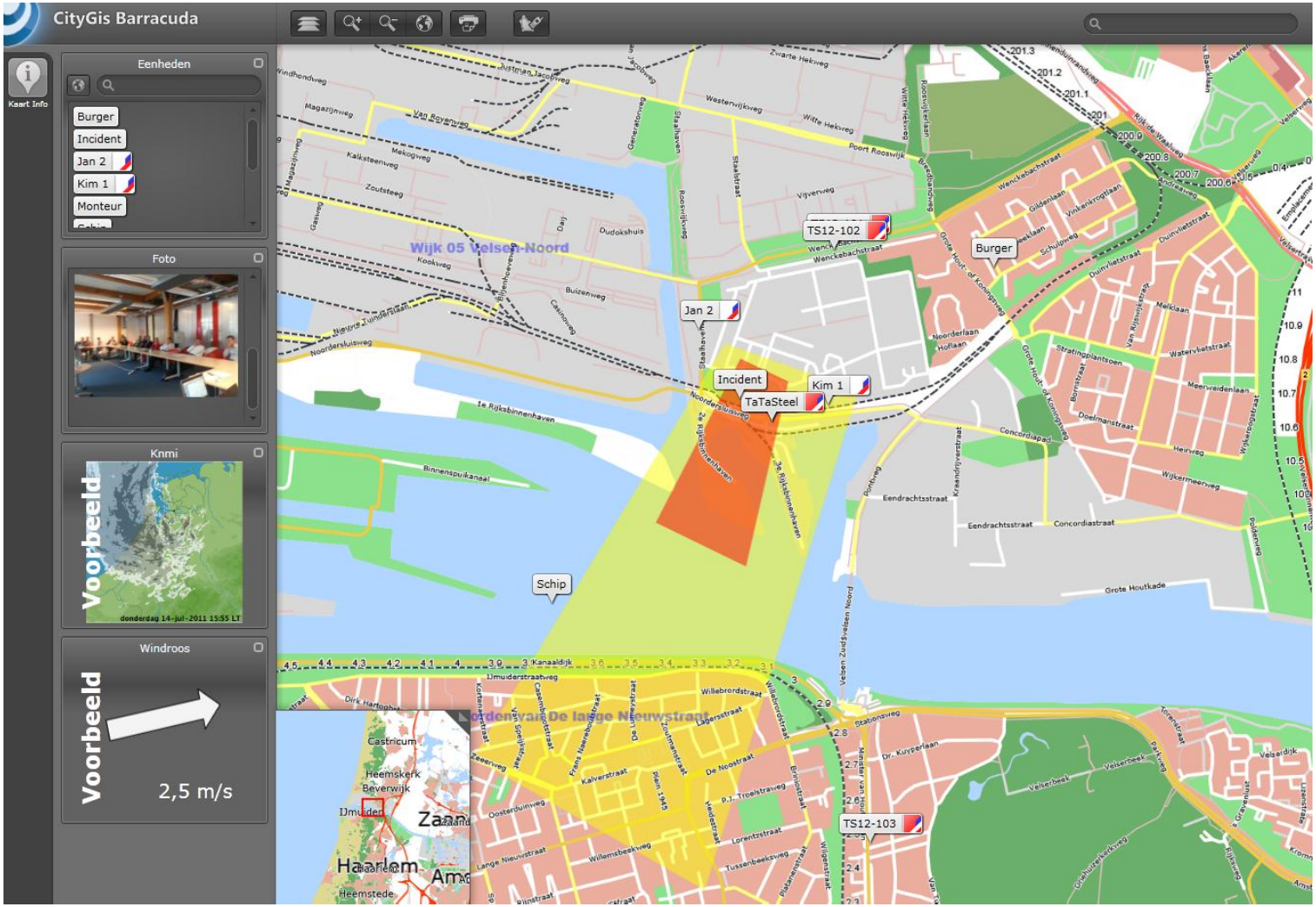
5. KNMI Plume Shape (2nd): inform harbour & ships



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6. Policeman in danger zone

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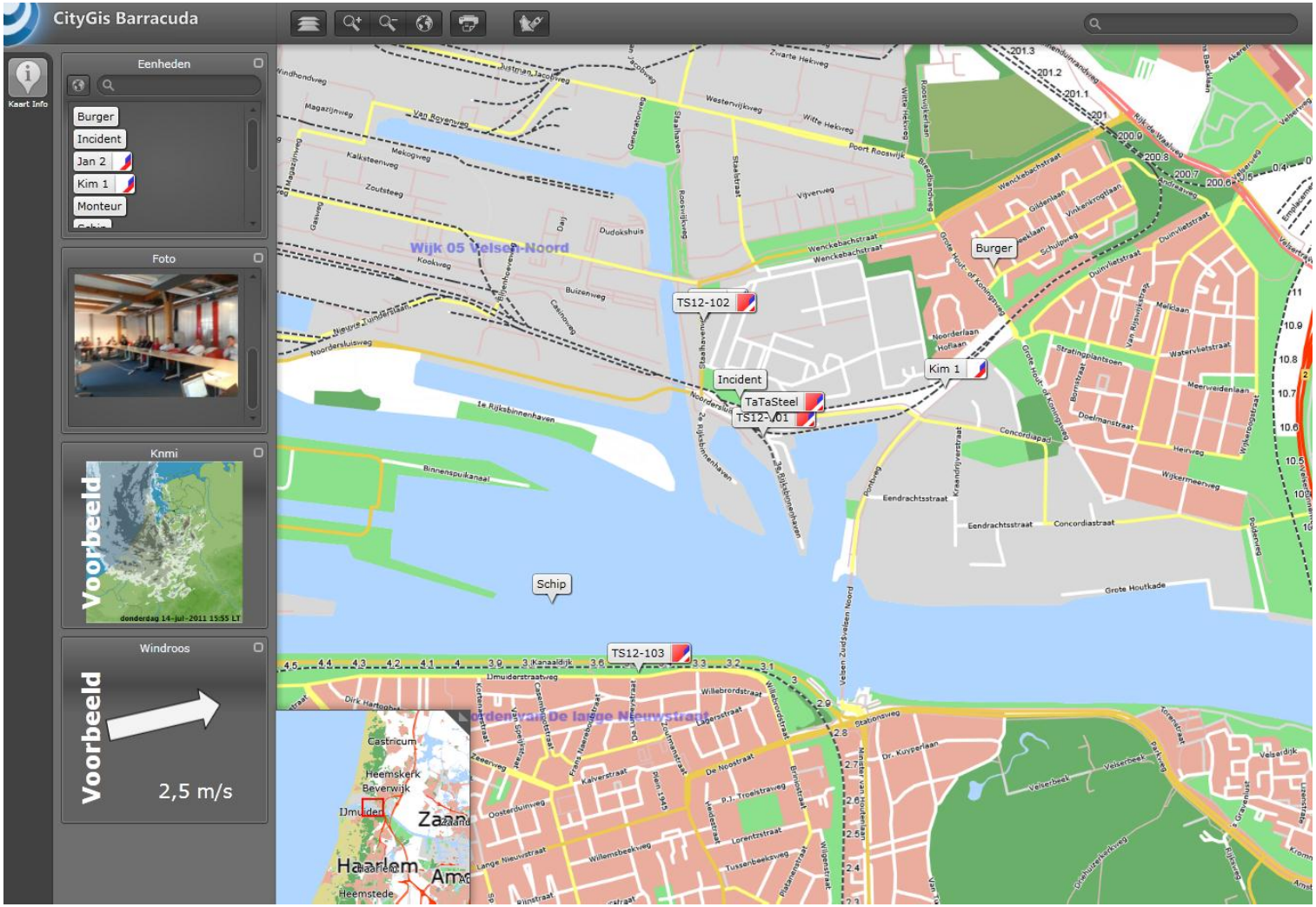
7. Incident wrap-up



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NL Use-Case: Involved Parties

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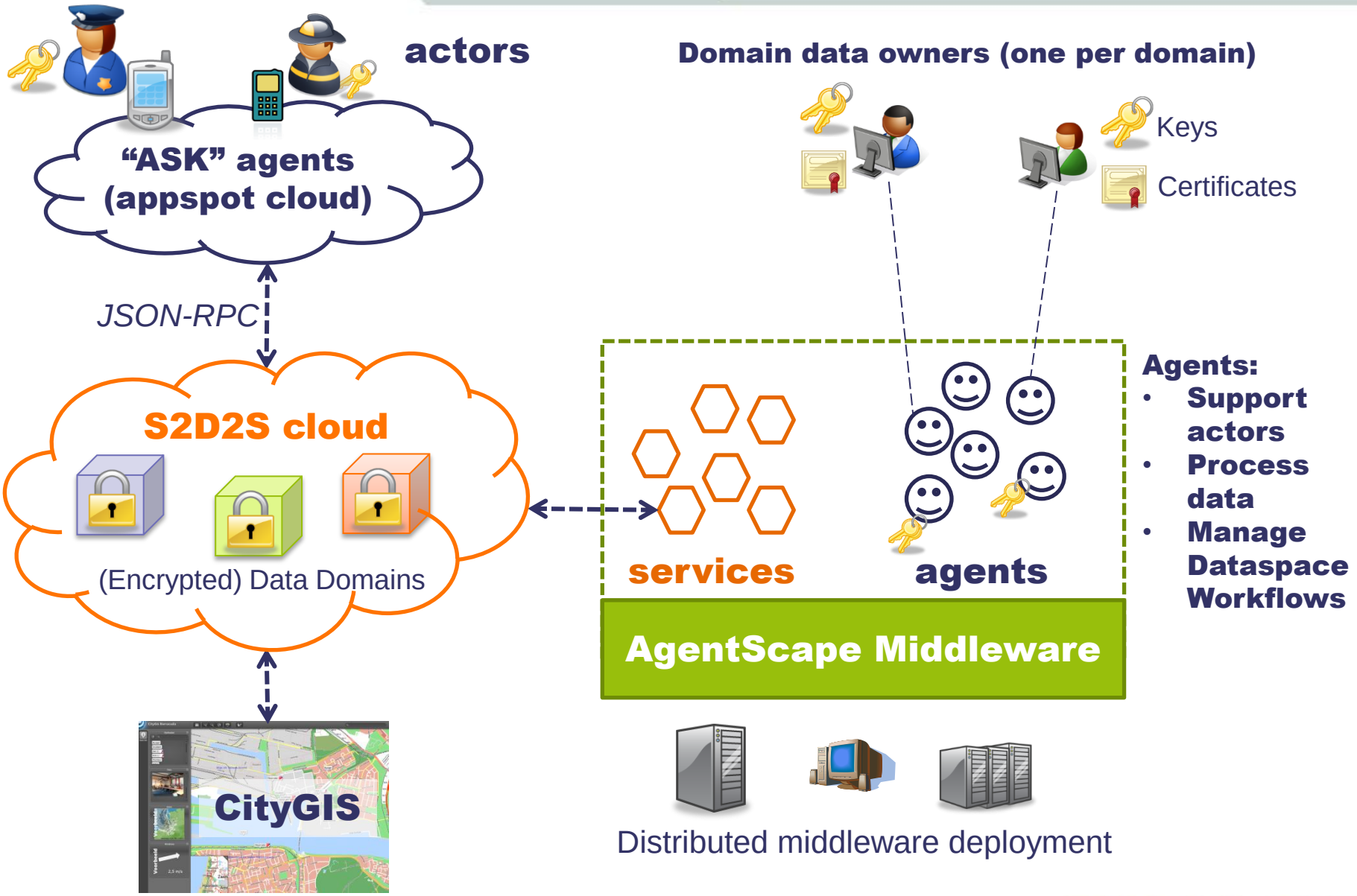
Demonstrator Configuration



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Maturity

Functionality

- Data sharing
- Security
- Workflowing / routing of information
- Dynamicity: join/leave of (new/known) parties

Demonstration

- Tata Steel threat-scenario
- BRIDGE project (FP7, EU): tunnel disaster scenario
  - (not shown in this presentation)

Software

- TRL3+

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More information?

For more information

www.slim-verbinden.nl

Email

- Peter de Bruijn (project leader) from Studio Veiligheid)
  peter.debruijn@studioveiligheid.net
- Niek Wijngaards (technical coordinator) from THALES NL / D-CIS Lab
  niek.wijngaards@d-cis.nl

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