Smart Connected Supplier Network

Roadmap meeting, October 15th 2021

Objective of this Meeting

Smart Connected Supplier Network

- Develop Roadmap 2022 – 2025

    - Board & Supervisory Board are the owner of the roadmap

    - Following pages are suggestions, **your input is needed!**

    - Identify focus areas in order to draft full roadmap

- Agree on next steps to formalize roadmap

Agenda

Smart Connected Supplier Network

- 4 Focus Areas

- Current Status

- Roadmap 2022 - 2025

- Focus 2022

4 Focus Areas

Smart Connected Supplier Network

We aim to develop SCSN further in broadly the following areas:

1. **Organizational**
2. **Service Offerings**
3. **Technical Infrastructure**
4. **Growth Ambitions**

Separately, we highlight the innovation activities related to SCSN.

2021 Roadmap and current status

	2020	2021	2022
Organisation	Transition from project to SCSN Foundation.	NL: Strategic partnerships with branche organisations. EU: Strategic partnerships to accelerate growth.	
Services	Comprehensive SCSN message set for manufacturing industry.	EU: Develop and integrate additional (AI) products and services for supply chain optimisation, condition based maintenance, etc.	
Infrastructure	Fully operational IDS infrastructure for Service Providers.	EU: Extend trusted network with advance security features e.g. usage control and ensuring interoperability with other data spaces.	
Connections	Growth to 400 connected manufacturing companies.	NL: 1.000 connections EU: 250 connections	NL: 2.000 connections EU: 1.000 connections
Service providers	Growth to 10 approved SCSN Service Providers.	NL: 15 Service Providers EU: 5 Service Providers	NL: 20 Service Providers EU: 20 Service Providers

Growth ambitions

Current Status

Smart Connected Supplier Network

The current status for each focus area is:

1. Organizational

   - Legal grounding foundation completed

   - Service Provider Contract agreed (with basic SLA, compliance policy)

2. Service Offerings

   - Comprehensive message set is operational

   - Working on extending Order 'Additional Services' and Resilience

   - No urgent open issues anymore regarding the messages

Current Status - Continued

Smart Connected Supplier Network

3. Technical Infrastructure

   - Test & Production environment hosted by TNO

   - Outsourcing discussions with KPN and IBM

4. Growth Ambitions

   - 8 service providers, 10+ interested service providers

   - 50+ members via IDS via four service providers, other service providers are in the final stages of integrating IDS.

Current Status – Innovation initatives

Smart Connected Supplier Network

- **Fabriek van de Toekomst - Schakels in de Keten -** Develop a communication standard and community such as is realized in SCSN. This project will end 2021.
- **MARKET4.0 -** Improve supply chain transparency. Strong links to International Data Spaces.
- **Metaalhuis/DVC-SI -** Market exploration of SCSN offerings.
- **EUR3KA** - Creating resilient supply chains which can quickly respond and adapt to significant variations in demand.
- **DASLOGIS -** Creating interoperable data spaces in The Netherlands.
- **DIH4AI -** Strengthening the collaboration between DIHs in Europe.
- **EUHubs4Data -** Aims to create a network of DIHs. Possible ways to help new service providers join SCSN.

Roadmap 2022-2025

1. Organizational
2. Service Offerings
3. Technical Infrastructure
4. Growth Ambitions

Upcoming Innovation Activities

1. Roadmap – Organizational (Part I)
Smart Connected Supplier Network

- Operations / staff functions (e.g. marketing) to be effectuated

    - Community Manager role

    - Setup of internal collaboration system

    - Formalize release management & versioning schedule for both messages and infrastructure

    - Formalize due diligence process

- Investigate expectations of members wrt SCSN Foundation

    - Is the way of working wrt Working Groups known and accepted?

    - What kind of support is expected / needed from service providers?

1. Roadmap – Organizational: Outreach

Smart Connected Supplier Network

Marketing & communication

- Strengthen marketing team and marketing plan

- Creating a strong online presence on LinkedIn & website

- Better embed in existing frameworks such as Smart Industry, Technow,..

- Support SCSN market research by Metaalunie/IPL

- Orchestrate communication efforts by service providers/end-users/sector organizations.

- Visiting trade shows/fairs or other ways to promote SCSN

2. Roadmap - Service Offerings

Smart Connected Supplier Network

- More / different messages (for example measuring data / process data)

  - Utilize innovation projects (e.g. DASLOGIS, EUR3KA, DIH4AI) to work on specific improvements (e.g. resiliency).

  - Increase support and usage of current message sets.

  - Support of advance ordering flows (i.e. better handling of exceptions)

- Support of other services on top of the infrastructure to further improve scalability.

  - The translation of messages *as a service*

  - Connecting of a third-party platform/company *as a service*.

2. Roadmap - Service Offerings: Third party services

Smart Connected Supplier Network

Example scenario:

1. Service provider X offers integration with a third-party platform/partner: e.g. ASML SAP Ariba, S@les in de bouw,…

2. Service provider X publishes the service

3. Service provider Y makes an agreement with X to use the service.

The service can now be used by a larger group of end-users.

Not all service providers need to integrate all third-party integrations.

All connected companies can use ATIS service

ATIS service offered by service provider Y.
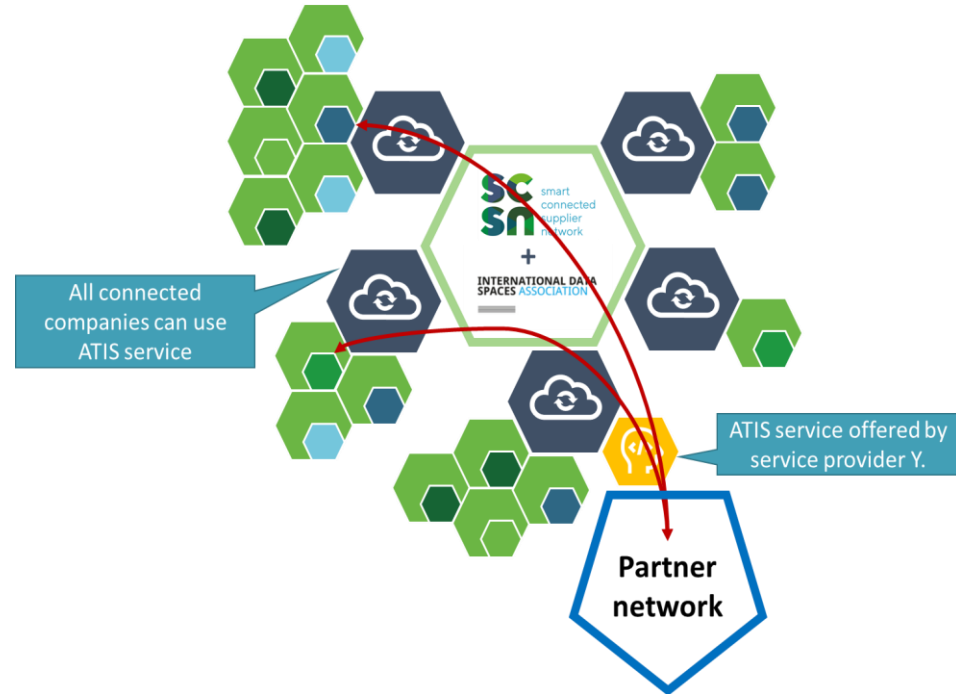
Partner network

3. Roadmap - Technical Infrastructure

Smart Connected Supplier Network

- Take over hosting by commercial party

    - Now discussion with ao KPN to take over hosting. Agreement expected early next year.

- Eager to welcome the 10th service provider, with also international candidates.

    - Expansion strategy is focused on Germany and Belgium.

- Drafting position paper on (IDS/GAIA) certification

- Innovation areas

    - Data space interoperability

    - Certification, working towards full-stack integrity

4. Roadmap - Growth Ambitions

Smart Connected Supplier Network

- Broaden targets to 'manufacturing industry' instead of 'only' high-tech in NL
- Benelux:
  - Service providers; goal 2022: 15 (3 international), 2023: 25
  - Connections to IDS; goal 2022: 200, 2023: 400
- European/International, aim to connect with:
  - Connect German service providers (e.g. myOpenFactory, SupplyOn)
  - Collaboration with other data spaces -> dataspace interoperability (for example Catena X)

4. Roadmap - Growth Ambitions - Data Space interoperability

Smart Connected Supplier Network

- IDSA report on the Governance of data space instances with a focus on **inter** and **intra** data space interoperability.

- Creation of a European Rulebook for Data Spaces.

GOVERNANCE FOR DATA SPACE INSTANCES
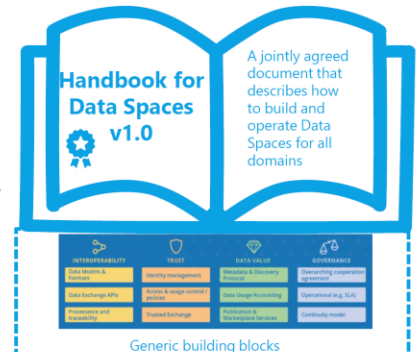ASPECTS AND ROLES FOR THE IDS-STAKEHOLDERS

2. WHAT WILL BE CREATED

INTERNATIONAL DATA SPACES ASSOCIATION

A HANDBOOK FOR DATA SPACES THAT DESCRIBES HOW TO BUILD AND OPERATE DATA SPACES FOR ALL DOMAINS

DOCUMENTS IN SCATTERED LANDSCAPE

	Policy Rules and Architecture of Standards
gaia-x	
DATA SHARING COALITION	Data Sharing Canvas
INTERNATIONAL DATA SPACES ASSOCIATION	IDS Rulebook
SITRA	SITRA Rulebook
OPENDEI	Design Principles for Data Spaces v1.0

Non-exhaustive

Handbook for Data Spaces v1.0

A jointly agreed document that describes how to build and operate Data Spaces for all domains

Generic building blocks

www.internationaldataspaces.org

// 10

4. Roadmap - Growth Ambitions - Data Space interoperability

Smart Connected Supplier Network

- Tens of IDS and GAIA-X data spaces are emerging in the next years. Focus is mostly on *data spaces 1.0*, i.e. the setup of a data space and ecosystem.

- Interconnection between data spaces is of special interest in the upcoming years as part of *data spaces 2.0.* European federation of data spaces.

Inter-data space interoperability
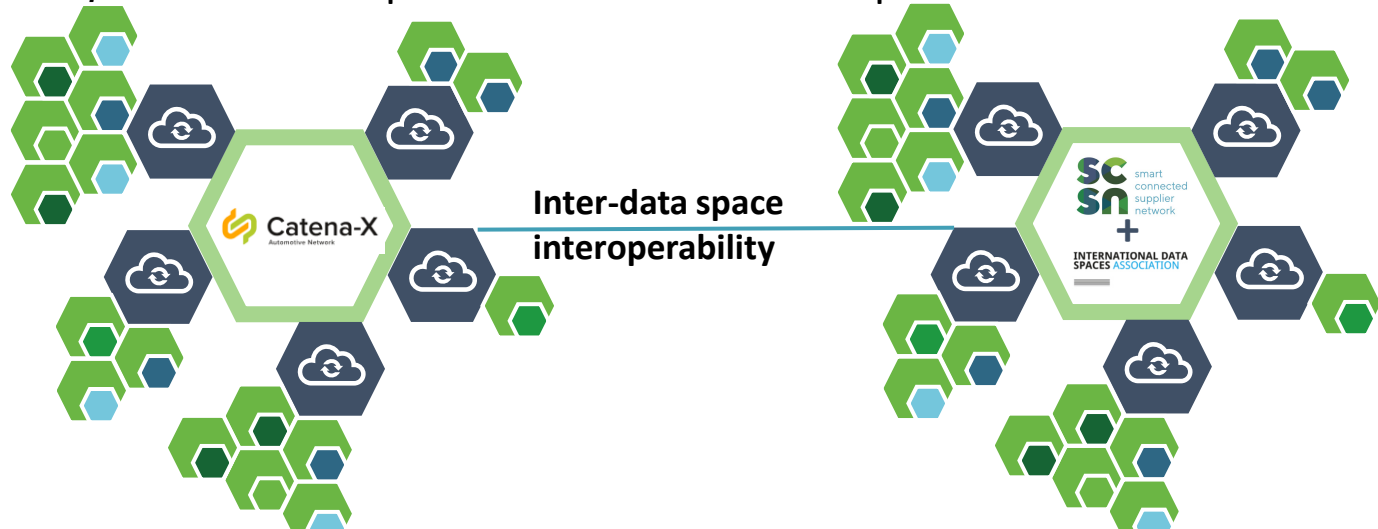
Upcoming Innovation Activities

Upcoming innovation activities (pending approval)

Smart Connected Supplier Network

- **Dutch GAIA-X Manufacturing Hub** together with the Province of North Brabant, a.o. bridging the gap to Catena-X.

- **IPCEI Semiconductor** with a special stream focused on Digital Supply Chain collaboration, chaired by ASML.

- **Manufacturing Data Spaces** European initiative to strengthen and scale up data spaces in manufacturing.

- **Team Data Spaces** commits support to the EU's plan to create European data spaces that realize the full potential of data sharing in the respect of European values.

- **EUHubs4Data Open Calls** can support new service providers to join SCSN.

Next steps

Next steps

Smart Connected Supplier Network

- Finalize identification of the roadmaps key areas

- Publication of a survey for the broader SCSN community in order to validate the current roadmap activities.

- Drafting of the final roadmap based on gathered input

- Drafting of the associated budget

- Formal request for approval of the revised roadmap