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Minimum Interoperability Mechanism 4 **Towards Interoperable Personal Data Management within Smart Cities**

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Mika Huhtamäki
Deputy CEO / Vastuu Group Oy
mika.huhtamaki@vastuugroup.fi
+358 400 616 253



A person in a red shirt and orange helmet is climbing a vertical rock face on the right side of the image. The background features a vast mountain range under a blue sky with scattered white clouds. The foreground shows rocky terrain and a valley with green fields and trees.

TRUST

City as MyData Operator

- Finnish Ministry of Finance funds 2,65 Meur project 2020-2021
- Project Consortium: City of Helsinki, City of Turku, City of Espoo, City of Oulu and their partners & subcontractors
- Stakeholders: Finnish Tax Authority, Ministry of Education, various State organisations and ministries
- Joint project implementation facilitates sharing, learning and validation of results to wider network of cities, municipalities
- Goal is to define how MyData thinking fits to Finnish cities and municipalities and build practical solutions to demonstrate MyData capabilities
- Project is committed to MyData Declaration and following principles
- **Trust is at the core of Finnish public sector and residents:**
 - People need to understand how city uses their data – consent management (granting/revoking) is made clear and easy to understand for residents
 - Data is used ethically, transparently and for the benefit of the people in designing proactive services for the future
- **Benefits of the project to the residents:**
 - MyData solutions ease the daily life of the residents by consolidation of the data collected by the city
 - Unified ways of working and services executed according to MyData principles enable scalable availability of digital services across administrative silos.

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Real-life case using upcoming MIM4 specification

Reduced daycare fee for families

- By law cities have to organise daycare services
- By law both parents' total financial situation defines the rights to reduced daycare fees
- To be eligible for reduced daycare fee, both parents must provide city with requested documents to justify their financial status
- In Helsinki, this means about 27.000 children annually
- Entire process is being automated by a new ICT solution, which will incorporate a MyData aspect of [consent management](#)
- In the future, parents are able to give their consent for direct verification of their income data from the National Income Registry



Reduced daycare fee for families

Current state (As-is):

As of today, information of the family income has to be submitted by filling in the form and sending proof documents in pdf format either by mail or secure email as to the City of Helsinki's customer fee unit.

Future vision (To-be):

As a citizen, I should be able to authorise the city to verify my annual income that may have a reducing impact on my child's daycare service fee. Automatically checking my income from the National Income Registry enables the city of Helsinki Customer Fee Unit employee to determine the correct applicable daycare fee with potential reductions for my child.



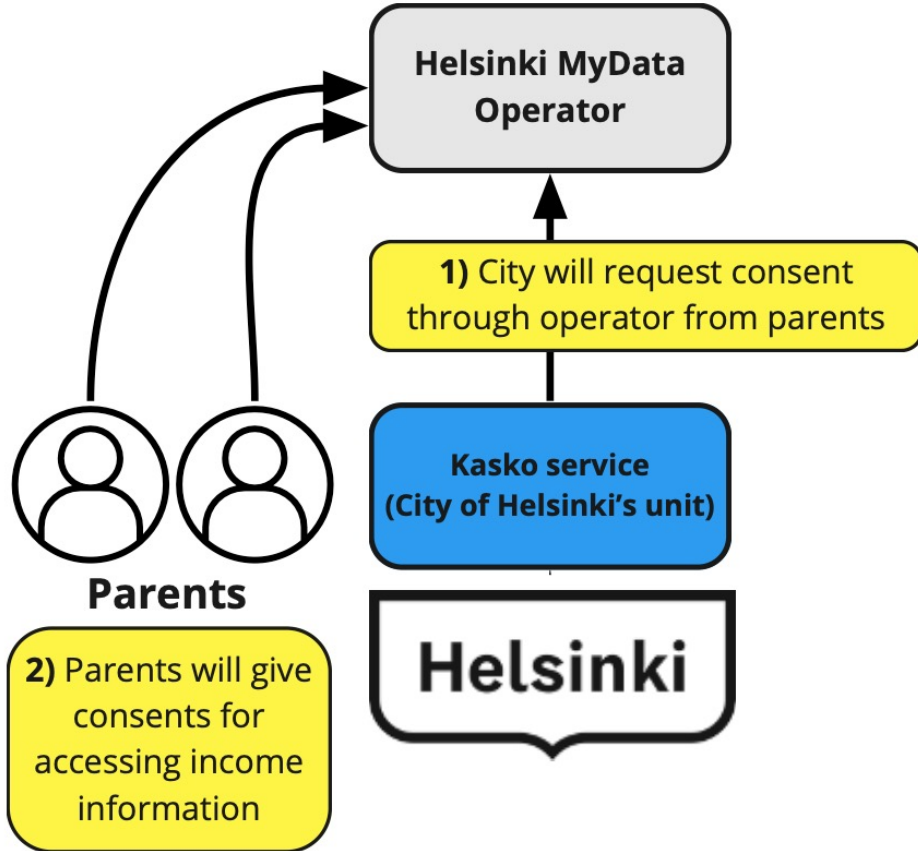
Reduced daycare fee for families

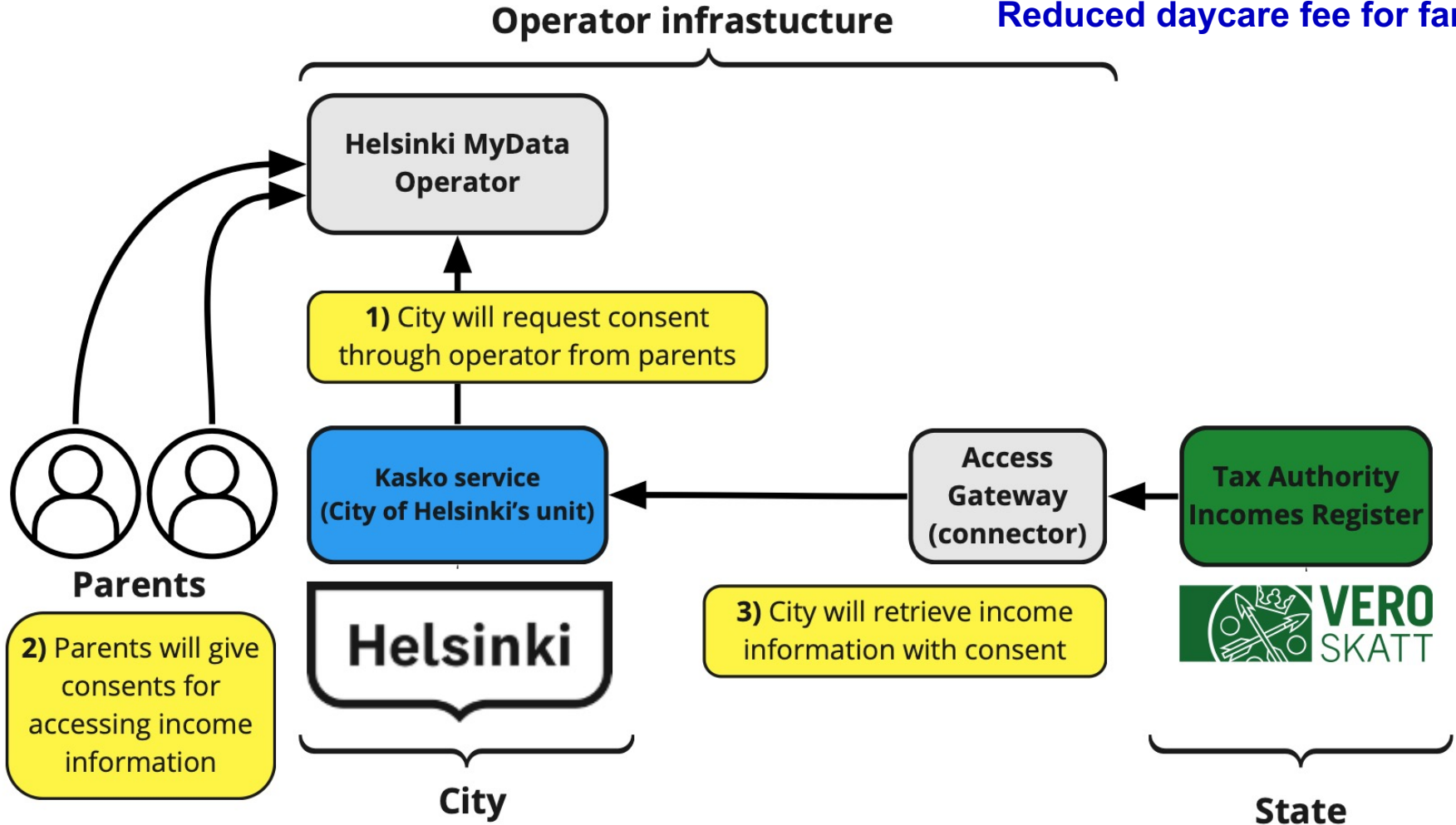
Benefits:

- Parents may give their consent via MyData Operator and be eligible for reduction of annual daycare fees
- No additional submittal of documents via email or by paper in most common cases (80% of families)
- Significant time and effort savings by the city in processing their residents's data
- Both parents/spouses may give and revoke their consent easily and separately
- Parents have visibility over how the city uses their consented data at all times
- Reduced fees are granted effortlessly to those families who have legal right to receive them



City as MyData Operator use case
Reduced daycare fee for families





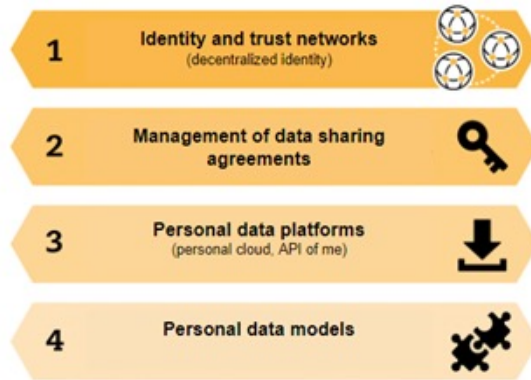
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Background and starting point

Initial scope

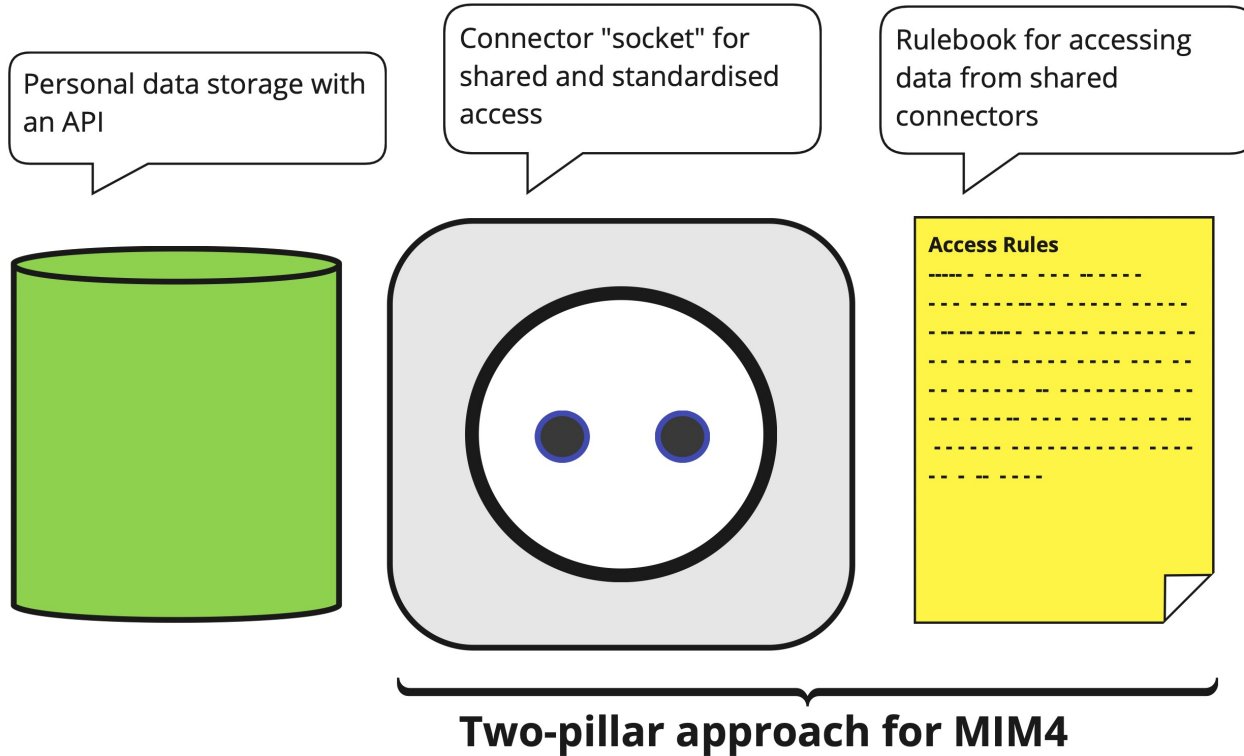
MyData principles provide a recognised and solid ground for advancing minimal interoperability mechanisms (MIMs) for personal data management.



Connectivity and Interoperability

- Minimum level of interoperability requires both shared services and legal framework
- Shared data access enables the foundation interoperability and personal data sharing
- Shared access to data has to be as simple and standardized e.g. “power socket” on the wall
- Access to the “socket” has to be enabled through common agreement

Connectivity and Interoperability



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Two-pillars and supporting frameworks

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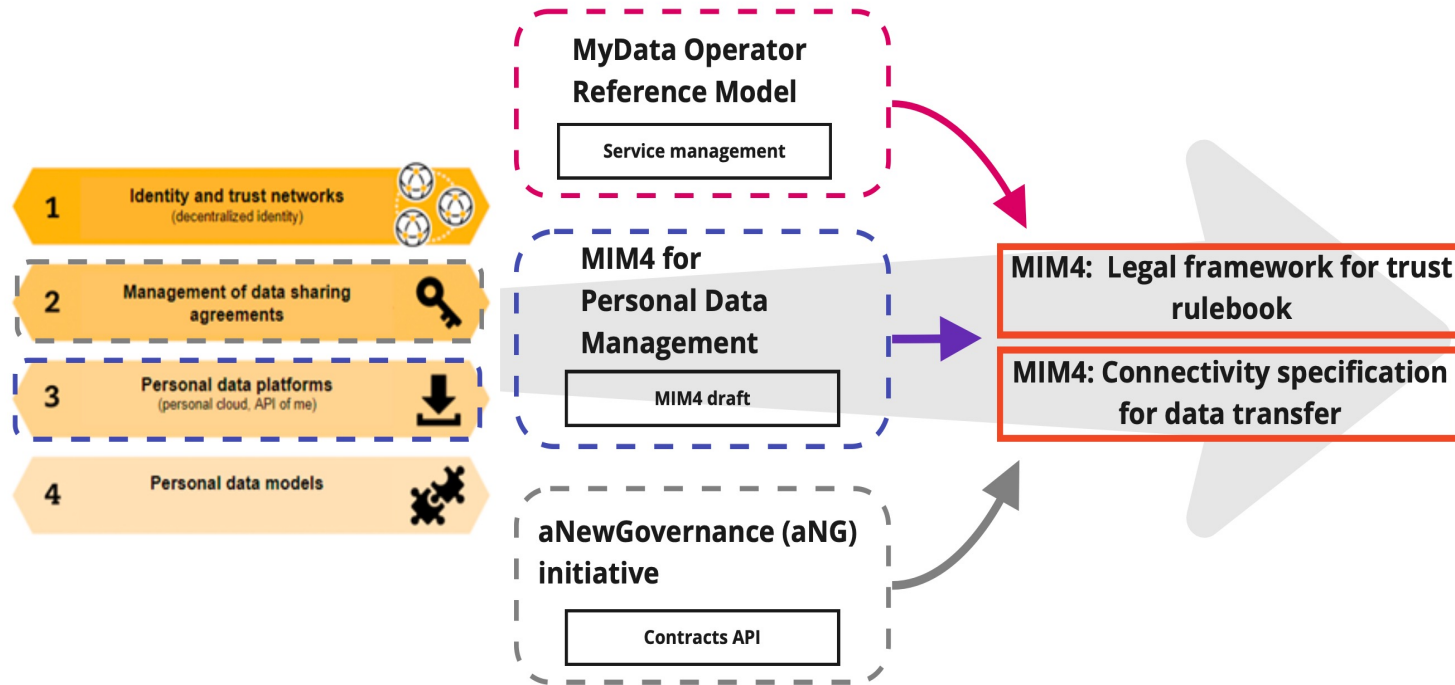
- Human centric data approach in smart cities aligns well with other similar frameworks
 - MyData Operator reference model
 - aNewGovernance (aNG) initiative
- MIM4 connectivity specification is compliant with both

Two-pillars: legal and tech specification

MIM4 - current overview

Frameworks

MIM4 - 2 pillar approach

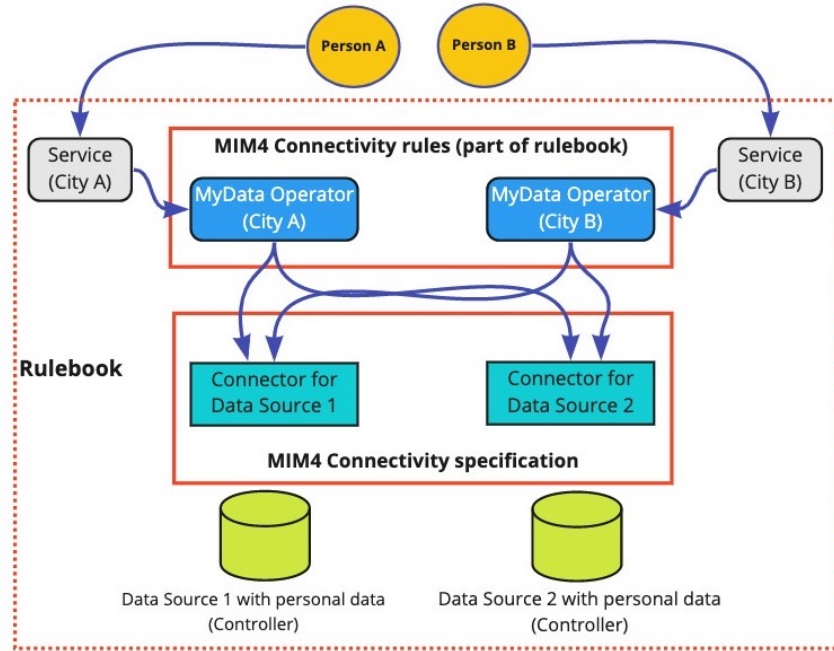
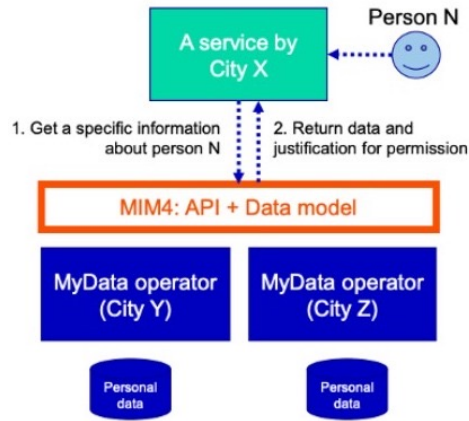


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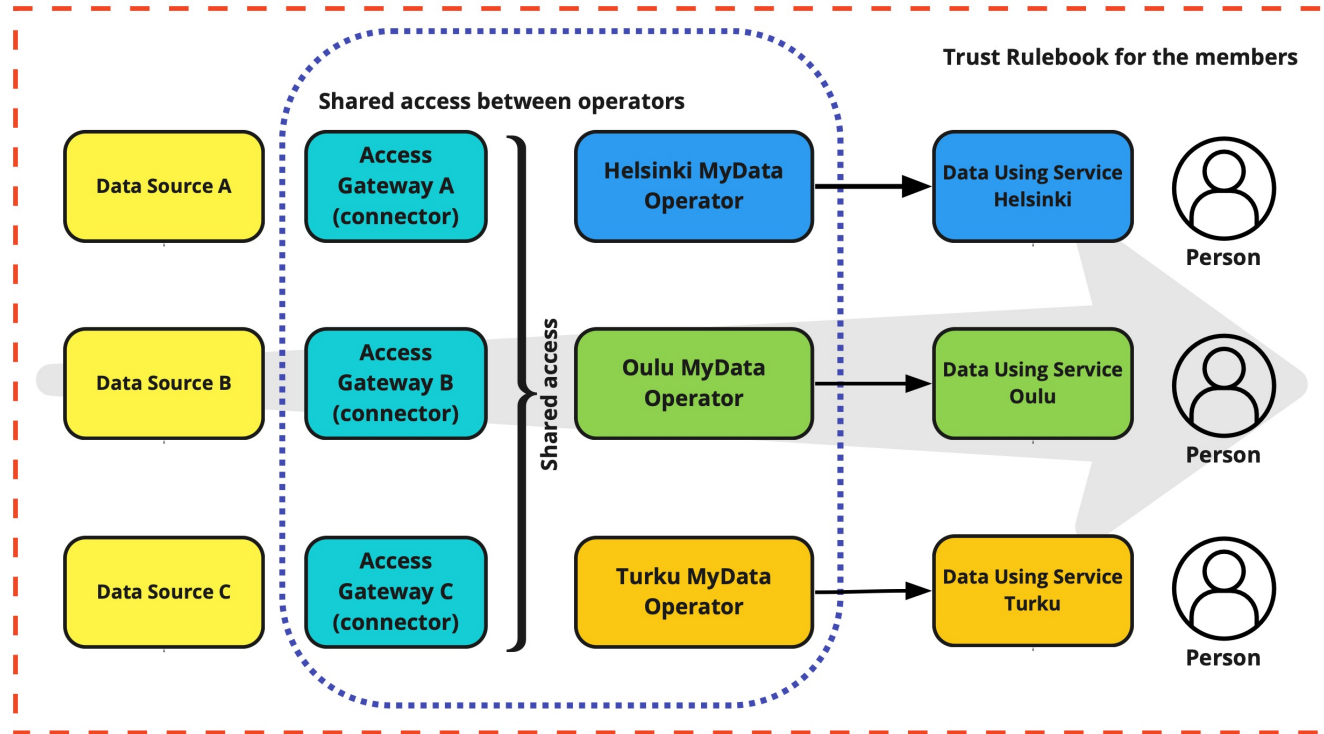
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Evolution and deliverables

Evolution from the earlier draft



Overview of the approach



Deliverables

- Initial version of the **MIM4 connectivity specification** and future roadmap
 - **With aNG requirements** and roadmap for machine-readable data sharing agreement management
- An **open-source access gateway** that facilitates the MIM4 connector implementation
- **Legal framework** and rulebook

Thank You!

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