

Open Data Node

Deployment strategy of ODN

in pilots



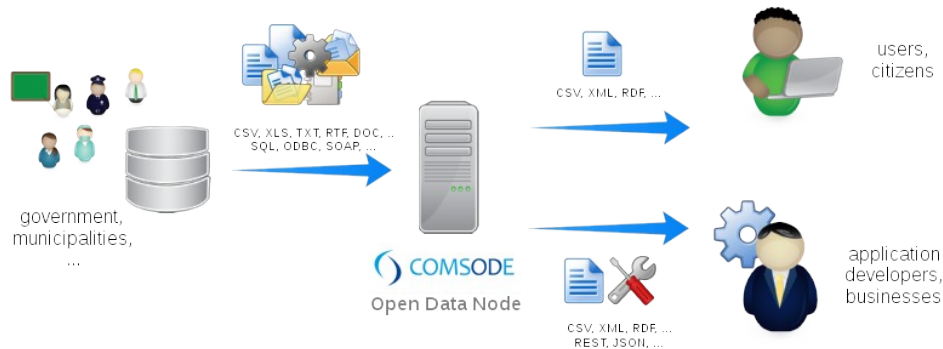
Agenda

- ODN – who it is for
- close integration
- main cases, corner cases
- typical deployment scenarios
- „the main thing“ (a.k.a. strategy for pilots)



Open Data Node - who it is for

Basic use-case



Open Data Node helps publishers with the complexity of source data and delivers easy to use and high quality Open Data to the users

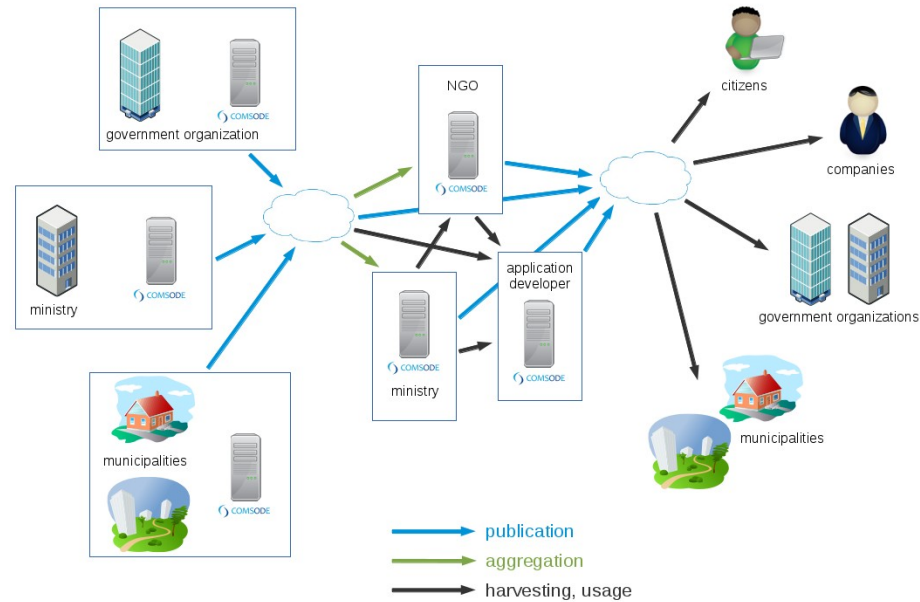
in automated, repeatable way, so that published data is always up-to-date

note: leave „Open“ out of it and you get

a generic tool for data integration and data exchange

Open Data Node - who it is for

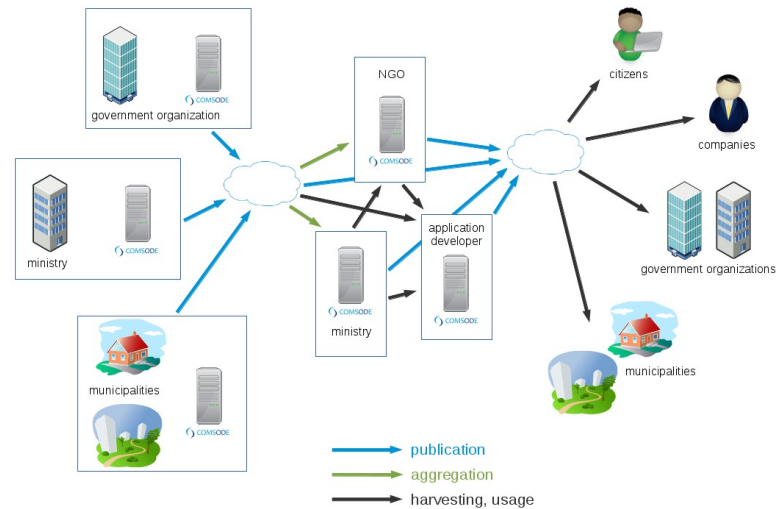
Typical actors and use-cases



Open Data Node can be deployed many times by many actors and can help with needs specific to each particular actor

Open Data Node - who it is for

Typical actors and use-cases



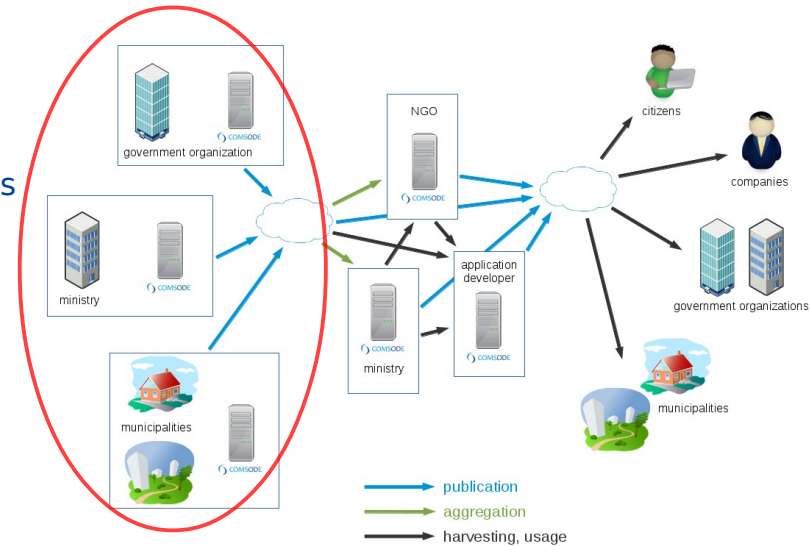
- publisher of Open Data (typical public body, etc.)
- aggregator of Open Data (public body, NGO, SME, etc.)
- application developer using Open Data (SME, NGO, etc., public body too)

Open Data Node - who it is for

Typical use-cases and functions

publisher of Open Data (typically public body):

- integration tool for extracting data from internal systems
- automated and repeatable data harvesting: extraction and processing of data
- cache storage for the data and metadata
- data publishing in open and machine-readable formats to the general public and businesses including automated efficient distribution of updated data and metadata (dataset replication)
- internal data catalogue of datasets for maintenance and internal sharing
- integration with data catalogues (like CKAN) for automated publication and updating of dataset metadata

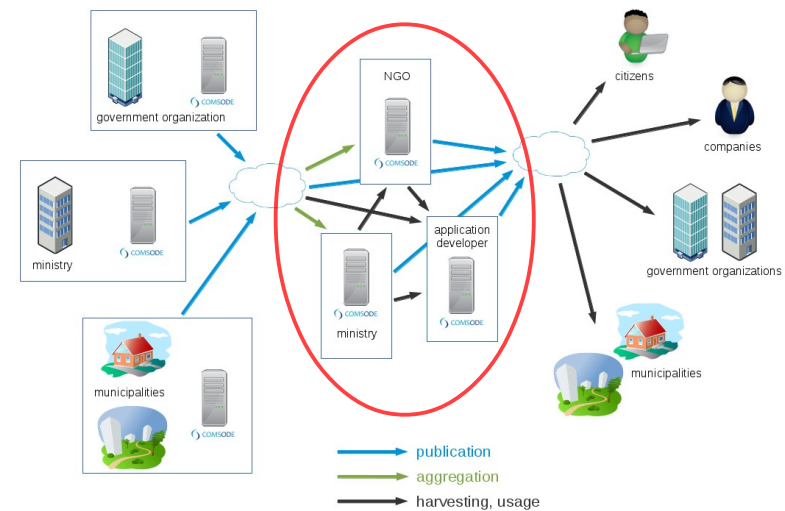


Open Data Node - who it is for

Typical use-cases and functions

aggregator of Open Data (public body, NGO, SME, etc.):

- functions same as in previous use-case
plus also:
- support for Open Data Node hierarchies
with efficient dataset replication
- automated and repeatable
data integration and linking



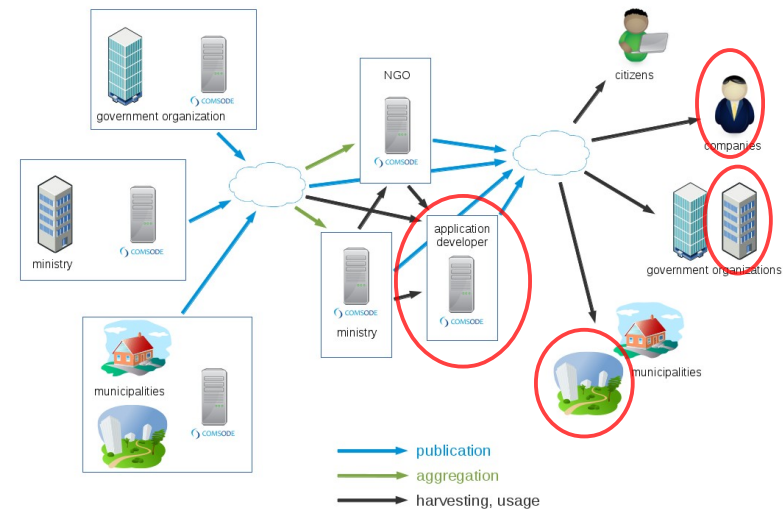
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Open Data Node - who it is for

Typical use-cases and functions

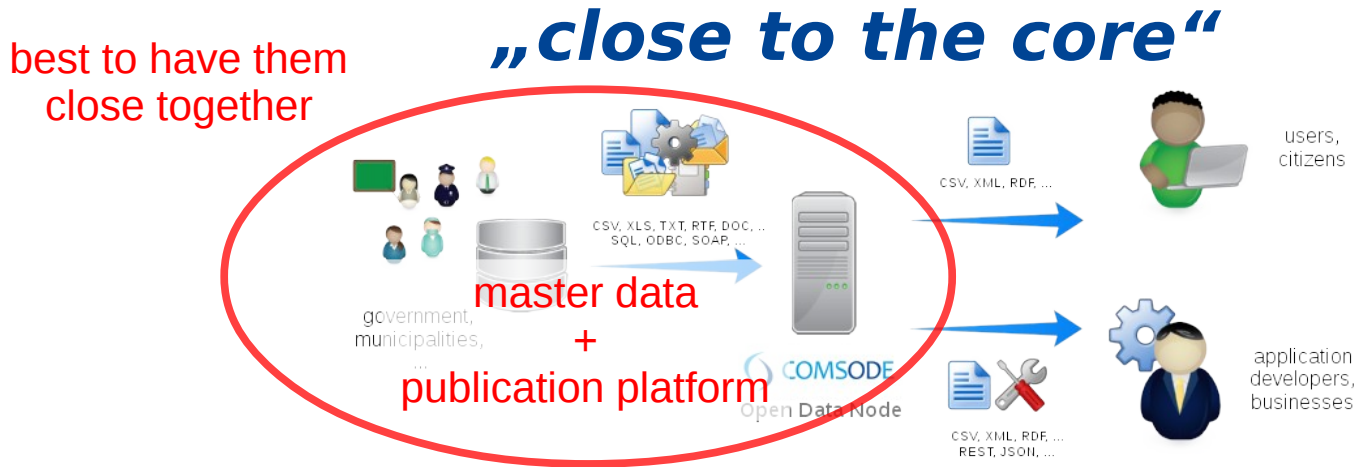
application developer using Open Data (SME, NGO, etc. public body too):

- functions same as in previous use-cases but optimized for:
- support for development of custom API for specific applications



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Open Data Node - close integration

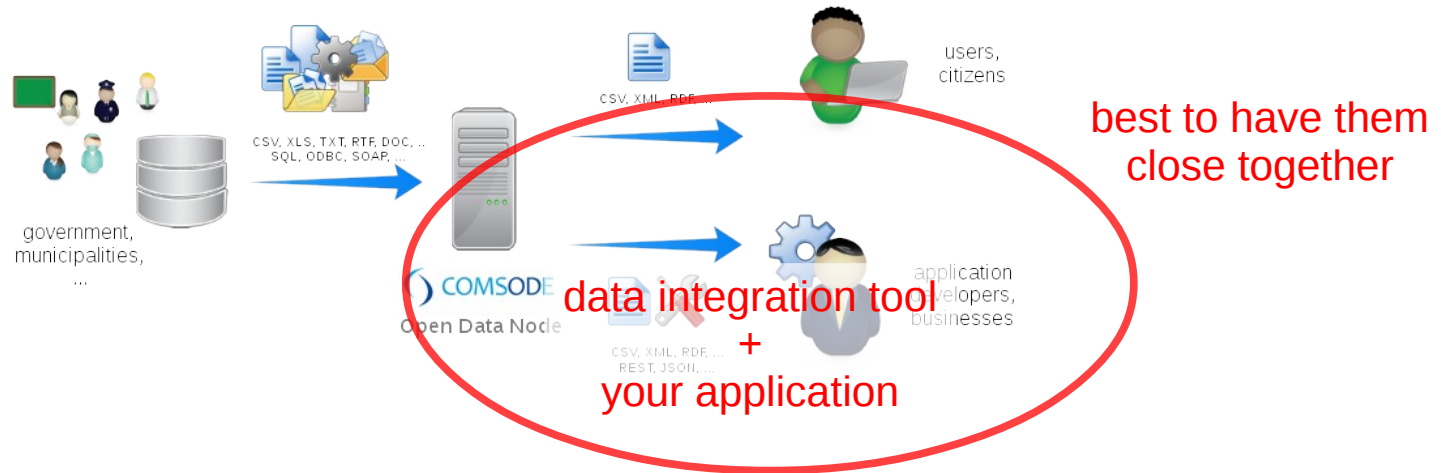


for publishers:

- close to the servers with master data eases publication

Open Data Node - close integration

„close to the core“

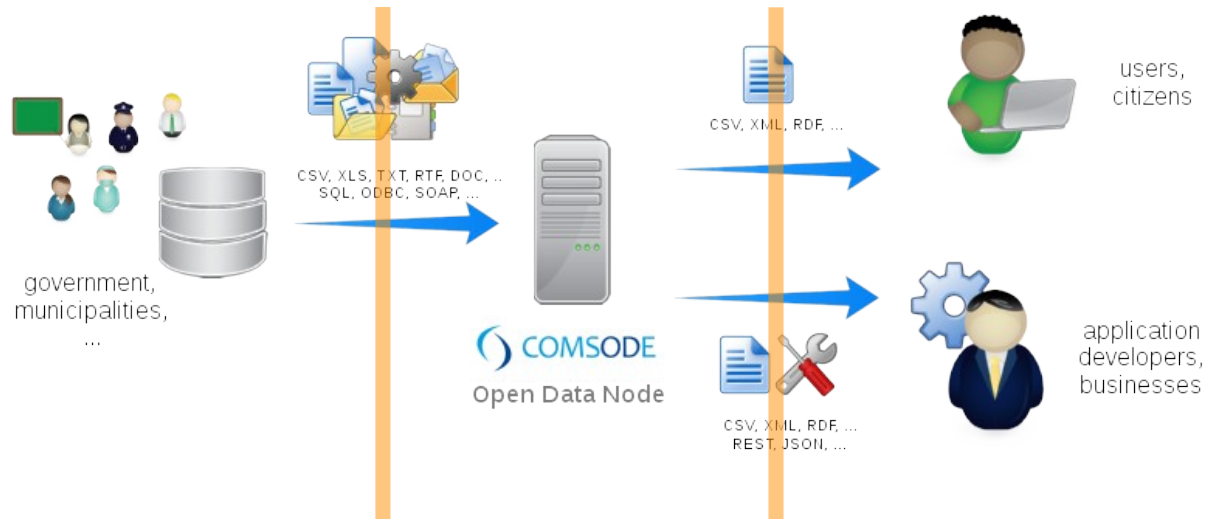


for data users (mainly app developers, etc.):

- close to the servers with applications allows efficient work with data for those applications

Open Data Node - close integration

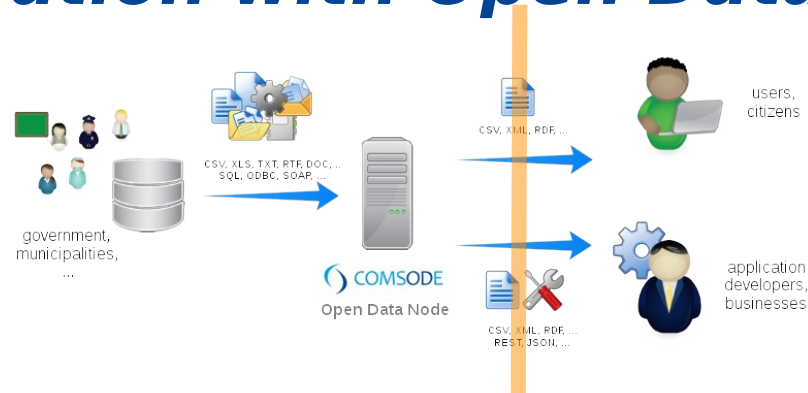
Integration with Open Data Node



- data harvesting side
- data publication side
- special cases

Open Data Node - close integration

Integration with Open Data Node

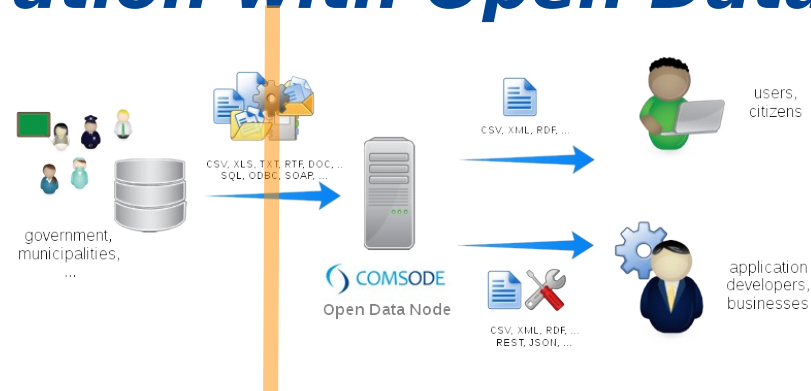


data publication side: as implied by most common use-cases

- files: CSV, RDF
- API: REST API, SPARQL endpoint

Open Data Node - close integration

Integration with Open Data Node



data harvesting side: as implied by most common use-cases

- files: XLS, „bad CSV“, ... - almost anything(*)
- API: SQL, SOAP, ... - almost anything(*)
- plus all the „Open Data files and APIs“

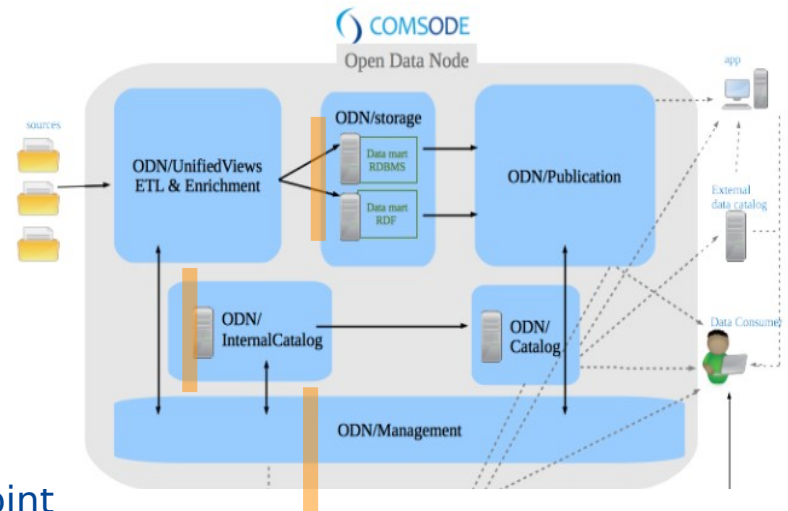
(*) given a prominence of a format/technology or particular interest of „customer“

Open Data Node - close integration

Integration with Open Data Node

special cases:

- ODN/Management: integration of SSO with your existing infrastructure
- ODN/Storage: direct access to SPARQL endpoint
- ODN/InternalCatalog: direct access to management API
- etc.

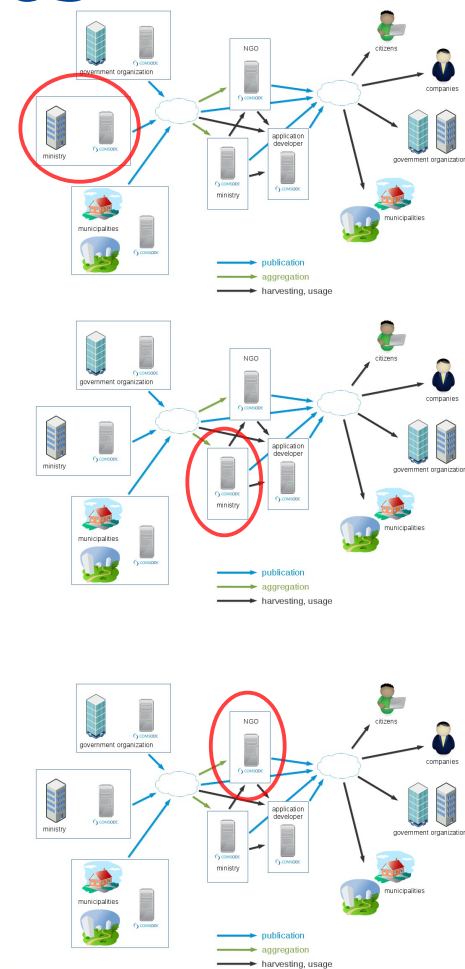


main point: complement existing infrastructure

Open Data Node

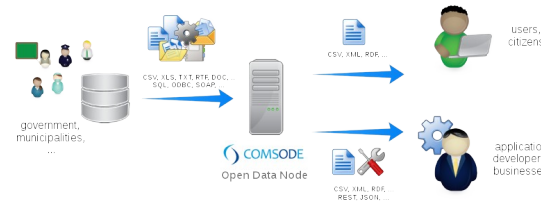
Typical deployment scenarios

- at the source, tight integration
 - full cooperation from publisher needed, including access to database
 - efficient and high quality publication
- almost anywhere, loose integration
 - publisher will give only some API or data dumps
 - the rest can be deployed almost anywhere
- usually by 3rd parties, no explicit integration
 - „last resort“, accessing what is „already out there“
(mostly meaning „scraping“)



Open Data Node - corner cases

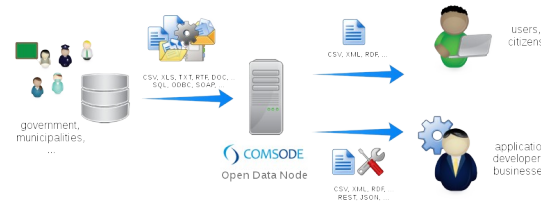
ODN maybe not a good fit



- shell script with few lines
 - dumping SQL database into CSV and uploading that to the web
- complete new or upgraded information system
 - which is „Open Data ready“
(i.e. implements directly publishing of Open Data)

Open Data Node - main cases

ODN can help



- something in between, when:
 - shell script is not enough
 - complete new information system is too much

„The main thing“

For all COSMODE (or not) pilots, it is important to first:

- state the problem
- have a vision of what you want to achieve
- know where you are (right now)

After that, we can talk about „details“ about how exactly to deploy ODN for you.

- choosing and maybe adapting the right deployment scenario, ...



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