

Name: Rosanne Wouters  
She/her

Country: Belgium

Affiliation: Flemish government,  
Departement of Care

Function: policy officer

Main expertise:

Flemish vaccination policy

Flemish vaccination registration system  
(Vaccinnet)



# Vaccination in Belgium and Flanders

- Healthcare is divided between federal and regional governments
  - Regions: preventive care
    - Free vaccines
    - Registration of vaccination
  - Federal: reimbursement of medicine
    - Reimbursement of vaccines



# Practical implementation

- Advice Superior Health Council
- Schedule of recommended vaccines provided free to patient
- Vaccines provided through caregivers
  - Ordered through Vaccinnet
  - Delivered directly to caregiver → stock counter goes up
  - Registered in Vaccinnet → stock counter goes down
- Caregivers
  - > 8000 organisations
    - Opgroeien
    - School health services
    - Primary care physician group practices
    - occupational health service
    - Residential care center
    - Hospitals
    - ...
  - > 10 000 individual caregivers
    - Nurses, physicians, pharmacies

# Legal framework registration

- Prevention decree:
  - Valid for caregivers in Flanders and caregivers in Dutch speaking organizations in Brussels
  - Describes registration of vaccination records
    - Administrator of vaccine is responsible for registration
    - Certain vaccines are mandatory to register
  - Describes use of registration data
    - For patient
    - For caregiver
    - For policy




# Technical implementation: FHIR

- Belgian implementation guide
  - Patient identified by INSZ number
  - Valid SNOMED code
  - Time of administration
- Flemish business rules
  - Administrator identified by INSZ number
  - Product identified by CNK number and in product list
  - Stock place of free product must be mentioned



STANDARDS

**HL7 Belgium Vaccination (Patient Dossier)**

1.1.2 - STU 

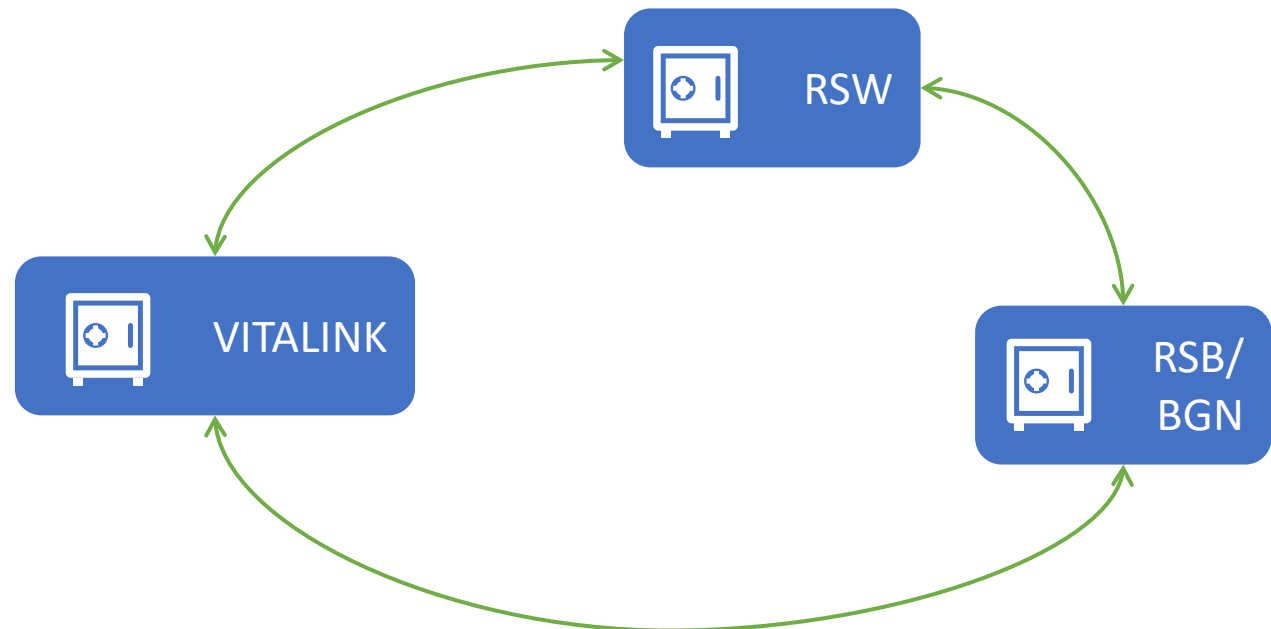
# Data uses for caregivers and patients

- Caregiver
  - Individual consultation
    - Medical advice patient
  - Group consultation
    - Vaccination coverage for groups
    - Vaccination history of caregiver/organisation
- Patient
  - Access to personal health data



# Data exchange: planned

- Short term: within Belgium
  - Intervault exchange
  - Vaccination records are stored in vault based on patient home
- Long term: within Europe
  - EHDS



# Data quality

- Depending on many factors
  - Type of caregiver
  - Type of vaccine (provided by Flemish government or bought by patient)
  - Year of vaccination
- Vaccination coverage study 2020 to estimate underregistration
  - Infant vaccination: 1,9%-6,3%
  - Adolescent vaccination: 0,2%-5,7%



**Vlaanderen**

is zorgzaam en  
gezond samenleven

More information on Vaccinnet:  
[allesovervaccineren.be](https://allesovervaccineren.be)

Contact:

[rosanne.wouters@vlaanderen.be](mailto:rosanne.wouters@vlaanderen.be)

[vaccinnet@vlaanderen.be](mailto:vaccinnet@vlaanderen.be)