

# CRS extensions for spatial APIs

Public session 1: 2021-10-07



# Overview

- Introduction
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- Goal
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# Introduction – GIS Specialisten

- Geo-ICT with 13 years of experience
- 20+ colleagues from 7 different countries
- Located in Utrecht
- Geo-ICT services:
  - Creation of tailor made Spatial Data Infrastructures
  - Operation of SDI's
  - GIS analysis
- Product development: [Geoservice.Cloud](https://geoservice.cloud)
  - Gis-as-a-Service
  - Hosting, services, analyses and online presentation in Web-GIS
  - Build on Open Source, runs in the cloud
- Working through co-creation



# Introduction – The Team

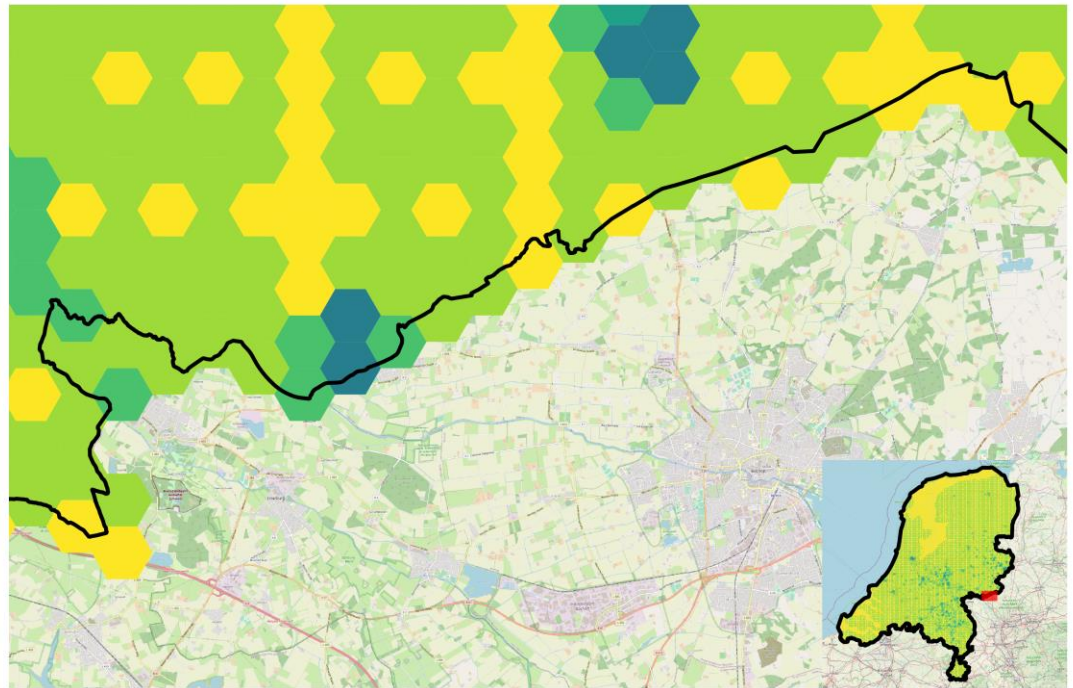
- Pim de Heer, GIS developer
- Pedro Caetano, GIS Developer
- Jasmijn Kok, GIS Analyst
- [Bart Zwemmer](#), Technical Manager



# Narrative


- INSPIRE Nitrogen deposits
- National dataset that is also important to neighbouring countries
  - Need for CRS extension

Nitrogen deposits 2019



# Goal

- OGC API Features – Part 2: CRS by Reference
- Working implementation
- Best Practices
- Tips and Tricks



ABOUT   MEMBERSHIP   STANDARDS & RESOU

## Certified Product List

Rectangular Snip

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Standard:

Product Provider:

☒ Compliant Products Only ☐ Reference Implementations Only

No Matching Records



# Goal: CRS by reference

- OGC API Features – Part 2: CRS by Reference
  - Discovery of supported CRS
  - Advertise storage CRS
  - CRS Parameter
    - Returns feature(s) in specified CRS, or HTTP 400 when CRS not supported
  - Default CRS



# Goal: Best practices

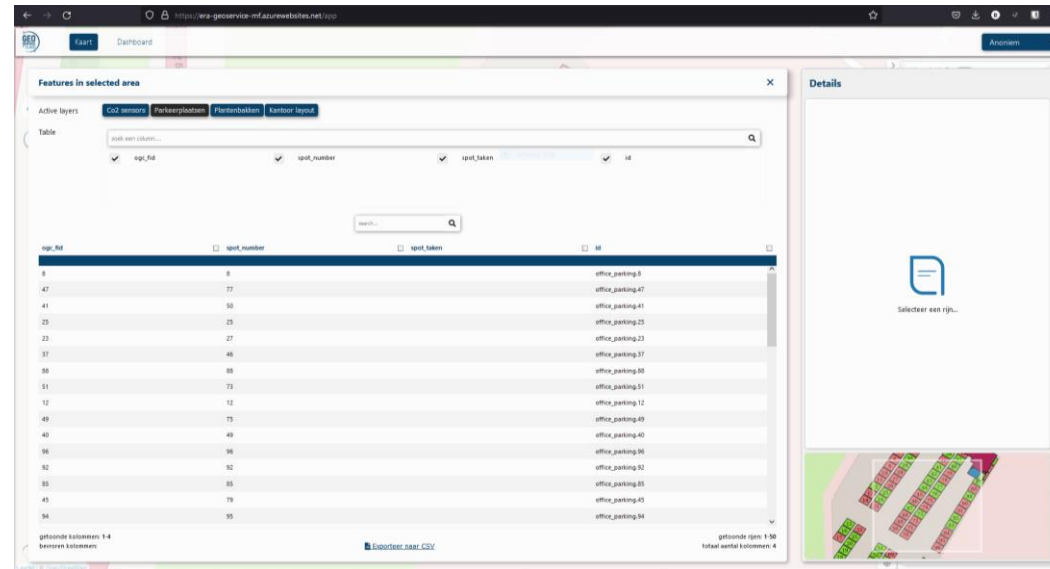
- Geonovum Github: <https://github.com/Geonovum/testbed-spatial-APIs>





# Deliverables

- Javascript library with implementation available under GNU GPL V3 license (a.k.a. free to use)
  - <https://github.com/Geonovum/testbed-spatial-APIs>
- Best practices, tips and tricks
  - <https://github.com/Geonovum/testbed-spatial-APIs>
- Full working demo
  - Geoservice.Cloud demo where you can download data in various CRS-es served through the API



api_id	spot_number	spot_taken	id
8	8		office_parking 8
47	77		office_parking 47
41	50		office_parking 41
25	25		office_parking 25
23	27		office_parking 23
37	46		office_parking 37
88	88		office_parking 88
51	73		office_parking 51
12	12		office_parking 12
49	75		office_parking 49
40	49		office_parking 40
96	96		office_parking 96
52	52		office_parking 52
85	85		office_parking 85
45	79		office_parking 45
34	95		office_parking 34



# Questions



**GIS Specialisten**  
the **peoplegroup**