



European soil monitoring law: Do we speak the same language?

Intersol' 2024

26-3-2024



Olivier Roussel
Customer Success Manager FR
TerraIndex



Olivier@terraindex.com



Robin Huisman
Designer and data analyst
Member of SIKB0101 technical
committee

TerraIndex : Qui nous sommes

Numérisation et optimisation

des processus
de l'étude des sols

Créée en **1996**

Partenaires

bureaux d'études,
laboratoires,
autorités normatives

Développement avec
les professionnels SSP

25+ années

d'expérience au BENELUX

2019-2020

Débuts hors BENELUX =
France / Espagne

1 SAAS

depuis 2008

2 interfaces

Application TABLETTE – Version WEB

3 matrices

Sols – Eaux – Gaz du sol

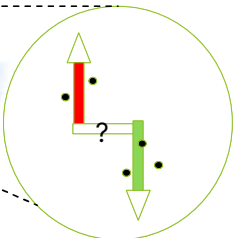


Pour plus d'informations, visitez <https://www.terraindex.com/fr>



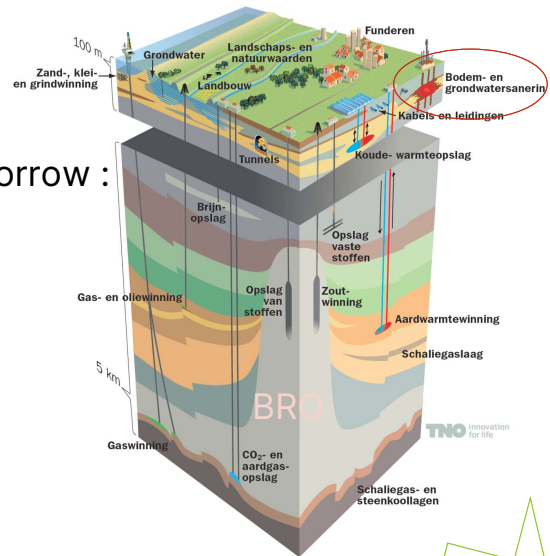
The context

Today :

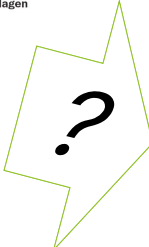


Map of Soil quality prior to soil work/excavations

Tomorrow :



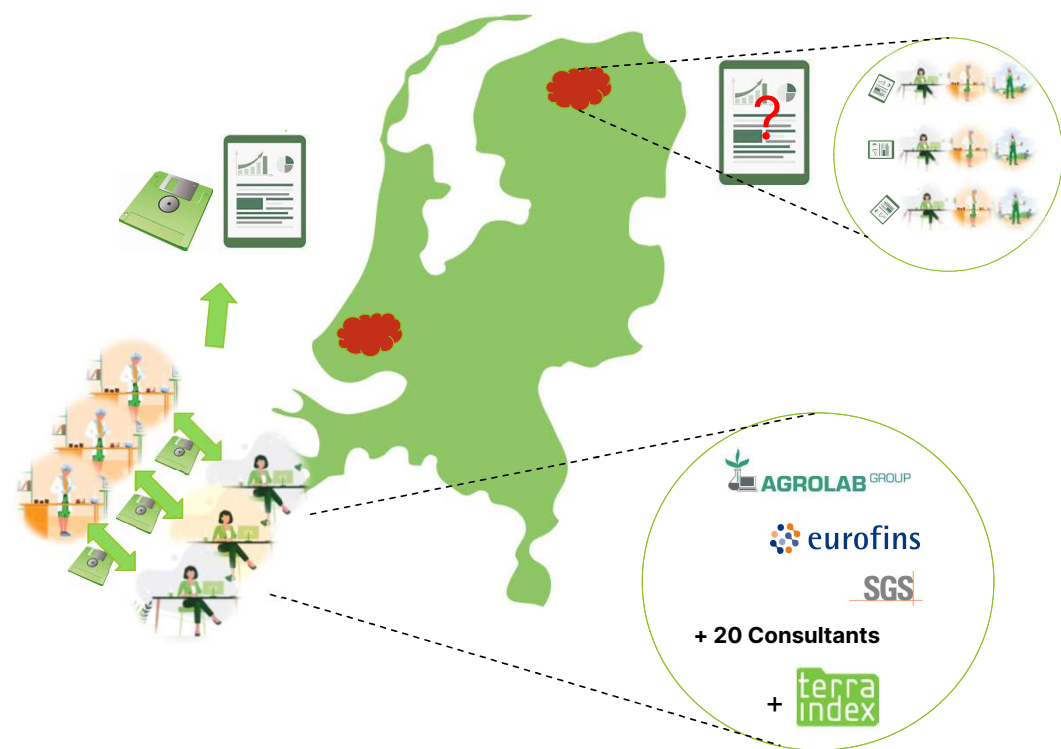
Directive on soil monitoring



2030...



How it started...



Late 90's : Several big projects, many stakeholders...

...no report

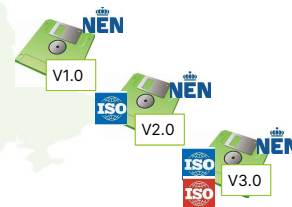
- Let's go **digital** !
- Which (commercial) format ?...Let's go **neutral**



6 months (and some versions) later...

...a concept

- Let's go **national**
- Let's go **international & multidisciplinary**
(ISO 28258 – Inspire – O&M)



10 years later...

...a standard !



In practice...

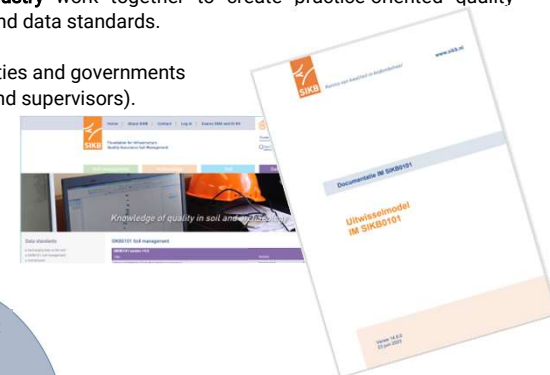
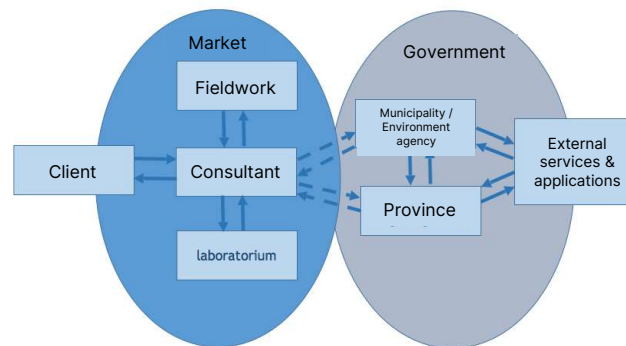


SIKB

network organisation in which **government** and **industry** work together to create practice-oriented quality guidelines for soil, water, archaeology, soil protection and data standards.

Goal : to ensure and improve quality among market parties and governments (in their various roles: as clients, licensing authorities and supervisors).

Base for **certifications**



- ⇒ Exchange format **IMSIKB0101** (v. 14.8) used daily by **200 S&GW consulting agencies**
- ⇒ **Private** initiative became an official **standard**
- ⇒ An **active** and pro-active **management**
- ⇒ **Private** and **public** actors together

Nowadays



“According to norm”...



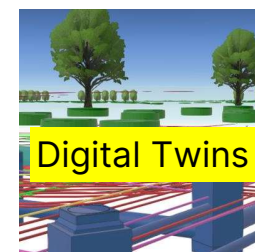
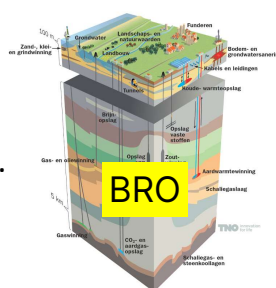
ISO 19136-1:2020
Geographic information
Geography Markup Language (GML)

ISO 28258:2013
Soil quality
Digital exchange of soil-related data

ISO 25177:2019
Soil quality
Field soil description

+ National norms (NEN)

Ready for...



How it started...we'll remember

Late 90's : Several big projects, many stakeholders...

...no report

- Let's go **digital** !

- Which (commercial) format ?...Let's go **neutral**

6 months (and some versions) later...

a concept

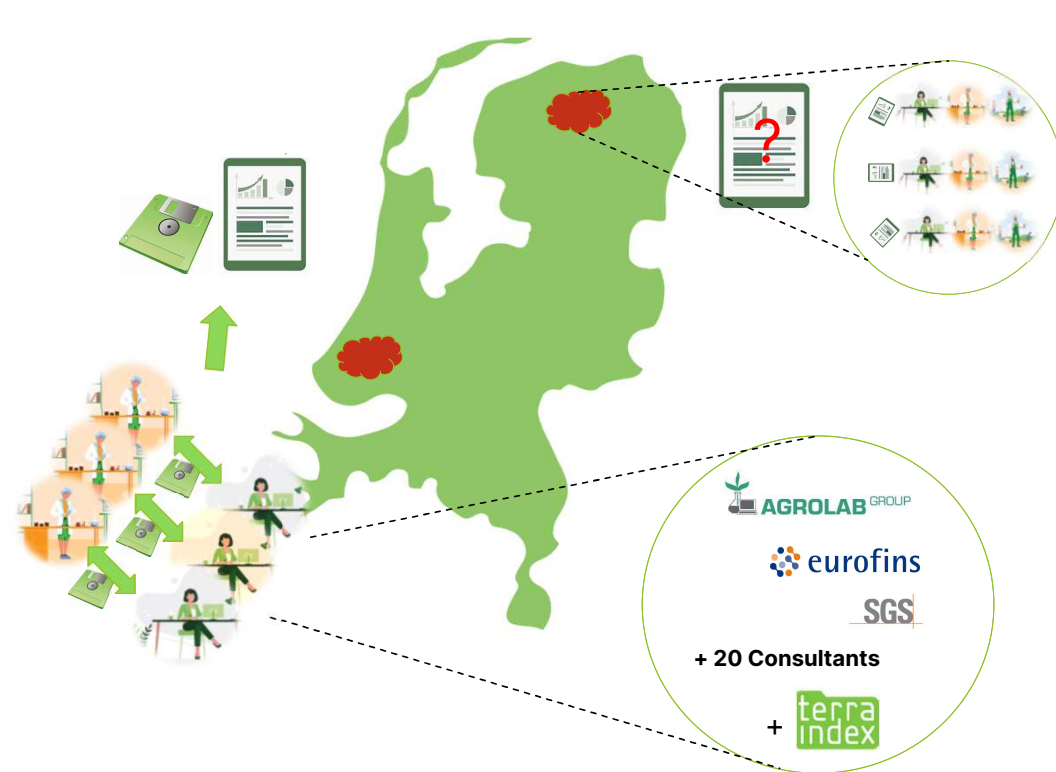
- Let's go **national**

- Let's go **international & multidisciplinary**
(ISO 28258 – Inspire – O&M)

10 years later...

a standard !

terra
index



We'll remember



- Let's go **digital** !

- Which (**commercial**) format ?...Let's go **neutral**



SIKB
= remains **local** and **flexibel**

- Let's go **national**

- Let's go **international & multidisciplinary**
(ISO 28258 – Inspire – O&M)

Summary :

- **Top-Down** (Norms, **reinforcement**) & **Bottom-Up**
- Adopt the **highest norms**/standards **ASAP** in the process
- Active **management** of the standard

Data management EU Soil Monitoring law

- 
- Let's go **digital** !
 - Which (**commercial**) format ?...Let's go **neutral**
 - Let's go **national**
 - Let's go **international & multidisciplinary**
(ISO 28258 – Inspire – O&M)
- SIKB = **local** and **flexibel**


Summary :

- **Top-Down** (Norms, **reinforcement**) & **Bottom-Up**
- Adopt the **highest norms**/standards **ASAP** in the process
- Active **management** of the standard

Directive on soil monitoring



6. The Commission and the EEA shall, on the basis of existing data and within two years of the entry into force of this Directive, establish a digital soil health data portal that shall provide access in georeferenced spatial format to at least the available soil health data resulting from:
 - (a) the soil measurements referred to in Article 8(2);
 - (b) the soil measurements referred to in paragraph 4 of this Article;
 - (c) the relevant soil remote sensing data and products referred to in paragraph 5 of this Article.
7. The digital soil health data portal referred to in paragraph 6 may also provide access to other soil health related data than the data referred to in that paragraph if those data were shared or collected in accordance with the formats or methods established by the Commission pursuant to paragraph 8.
8. The Commission shall adopt implementing acts to establish formats or methods for sharing or collecting the data referred to in paragraph 7 or for integrating those data in the digital soil health data portal. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 21.

- 
- Even if the EU gives the opportunity to each country to come with their own solution, do we go international, or do we stay national ?
 - Part of the actors on the field, our customers, our partners, are already working at an international level. Why not make use of it ?
 - In which of the existing EU organs (CEN ?) can we find this representativity & flexibility ? Is a group such as **SoilWise Project**, for us, the place to be ?
 - Defining and monitoring an “healthy soil” is definitely a **multidisciplinary** challenge. Even more stakeholders, disciplines and systems !
 - Think about further use of collected data in the future...

Q & A