Kennis- & Innovatie Programma
PFAS Bodem

Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat



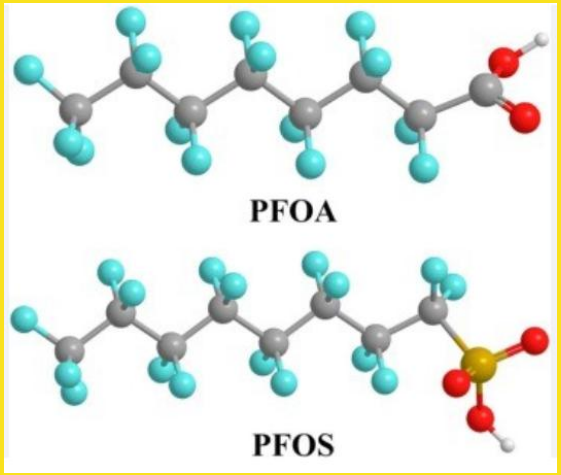
Knowledge and Innovation Program PFAS Soil

SOILver

Dik Welkers

November 6, 2026

Content



1. Dutch policy: Four pillars
2. Knowledge & Innovation Program PFAS Soil
3. Q&A

Kennis- & Innovatie Programma PFAS Bodem

Dutch policy







Main goal:

- Healthy soil
- Awareness

Four pillars

- Prevention, close the tap: EU REACH restrictions
- Alternative production/products, innovation: Industry
- Reduce emissions:
  - review of permits, further minimalization of emissions: industry and local and regional governments
- Reduce exposure:
  - Identification and remediation of hotspots: *next coffee break meeting Michiel Gadella*
  - Nutritional advise (e.g. egg/fish consumption), advices on use of consumer products, cosmetics, household maintenance (RIVM)
  - Temporary framework for diffuse contamination PFAS (3-7-3 ug/kg) in soil and sediments (non-paper deterioration WFD)

Knowledge & Innovation Program PFAS Soil



Lower House requests joint approach → taking on PFAS is recognised as disproportionate task

Goal: Efficient and effective remediation of PFAS in soil (& groundwater)

Joint approach: Science, Industry and Government

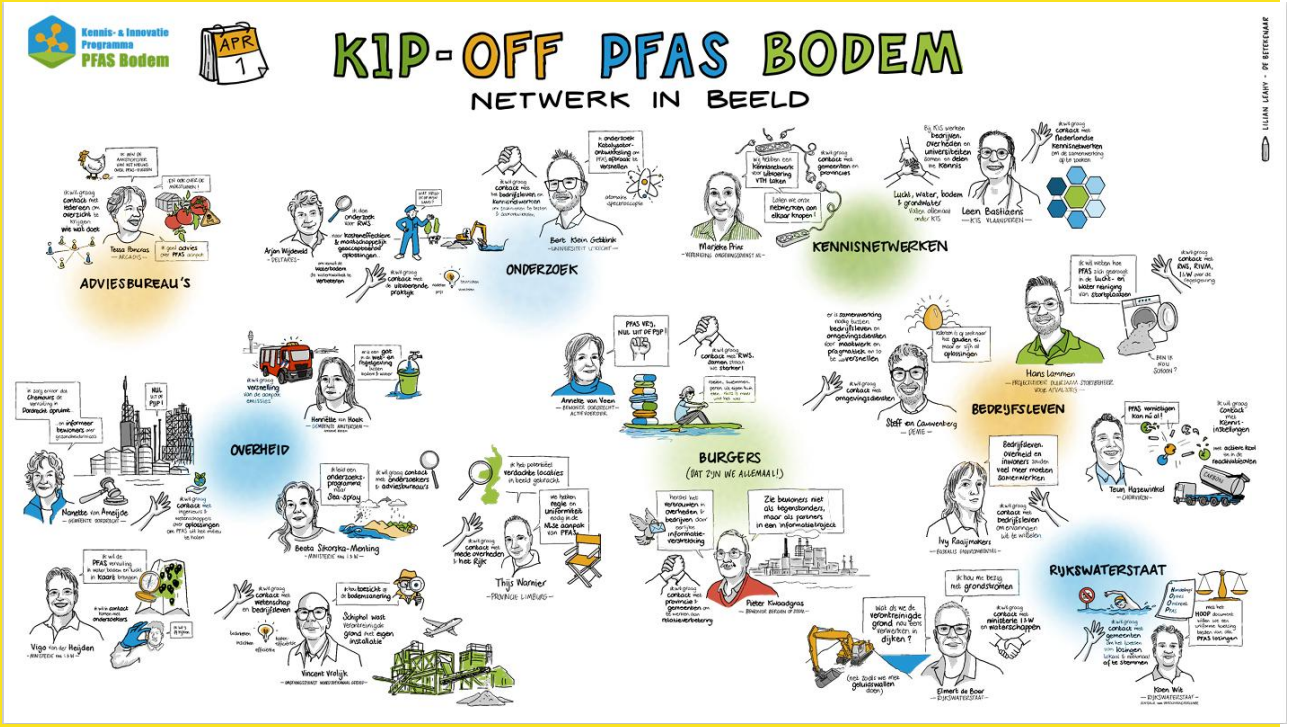
KIP PFAS Soil: 5 year (2026 – 2030) 12,5 M€

Not empty handed (brief overview):



- Soesterberg pilot Bodemsanering Vliegbasis Soesterberg | provincie Utrecht
- Leeuwarden Per- en polyfluoralkylstoffen (PFAS) - Gemeente Leeuwarden
- UU Living lab: PFAS Remediation - Centre for Living Labs - Universiteit Utrecht
- KWR Wat we weten over PFAS; de stand van zaken - KWR
- Deltares PFAS in grond, bagger en oppervlaktewater | Deltares
- Platform Bodem Beheer https://www.expertisebodemenondergrond.nl/platformbodembeheer/
- Website RIVM PFAS | RIVM
- Website Expertisecentrum PFAS Home - Expertisecentrum PFAS
- Website SBN Kennisdeling | Bodembeheer Nederland
- KIS (Bel) https://kis.vlaanderen.be/
- ITRC (VS) https://rmcs-1.itrcweb.org/
- CSIRO (Australië) https://research.csiro.au/pollution-and-waste/destroying-forever-chemicals/

KIP PFAS Soil



Lilian Leahy, de Betekenaar

- *Broadening knowledge base*: retrieving, organizing and actively propagating/ disseminating (international) knowledge and, where necessary, developing knowledge (see innovation)
- *Strengthening network*: Maintain, improve and connect networks. For the purpose of matchmaking and search for knowledge gaps (Knowledge Innovation Agenda) and driving innovations
- *Stimulating innovation:* Promote the development of innovative techniques and methods, by providing subsidies to innovation projects.

Targets 2030





- Toolbox and cookery book
- Platform for information
- Cooperating with other initiatives international, national and local
- Innovation on techniques and methods

- Breaking the deadlock
- Creating room for:
  - Risk based approaches
  - Tailor-made approaches

Target groups



owners of the locations (public and private),

knowledge institutions,

decision makers,

developers,

soil restoration organizations (consultancies, contractors, ground cleaners, etc.),

organizations to scale up innovations,

designers

What is innovation?





49% Policy development

- From environmental threats and social unrest to opportunities for innovation and economic contribution to the region → local politician in the spotlight! From ‘headache’ to ‘chance’

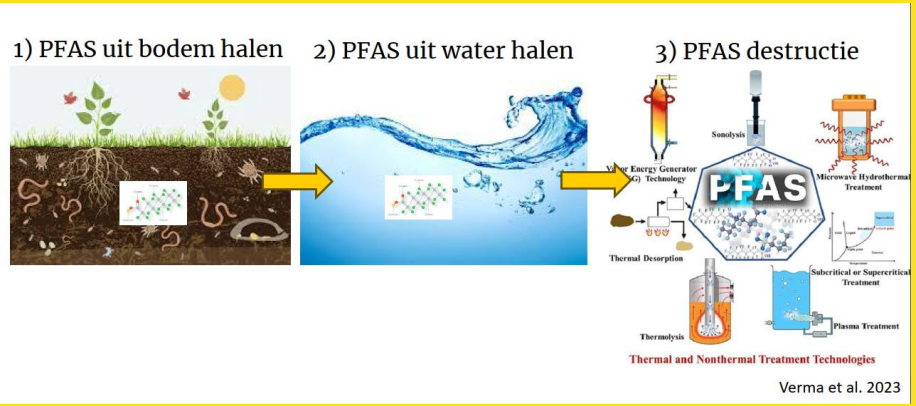
51% techniques

- From ‘impossible’ to remove & break down PFAS molecules → to ‘Yes we can’ and ‘Let’s go’!

- Example Doetinchem: From PFAS polluted clay → to building bricks for residential area

Knowledge and InnovationAgenda PFAS Soil 2026

Funding in cooperation with
Topconsortia Kennis en Innovatie
Watertechnologie en Deltatechnologie



- Theme 1: Technical
  - Contaminant behaviour
  - Soil and water treatment
  - PFAS breakdown
  - Innovative projects
- Theme 2: Norm values and Policy
  - PFAS in re-use of soil and building materials
- Theme 3: Stakeholders and Narrative
  - Pilots
  - Cooperation and communication

Stimulating innovation



- 2026 10 proposals, granting the end of november
- Methods
  - Current frameworks for water (WFD) and soil
  - Political engagement
  - Room for experiments
  - Narrative and communication
  - Cooperation with pilot projects
- Technical (adsorption, concentrating, destruction)
  - Electron bundle
  - Ball milling
  - Activated Carbon
  - Bricks
  - Electrolysis
  - Enzymes
  - SCWO
  - Hemp
- Designers
  - What else?

Not limitative



- Thanks for your attention

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- https://www.bodemrichtlijn.nl/kip-pfas-bodem