

For our Environment

PFAS Management Strategies in the United States, European Union and Australia

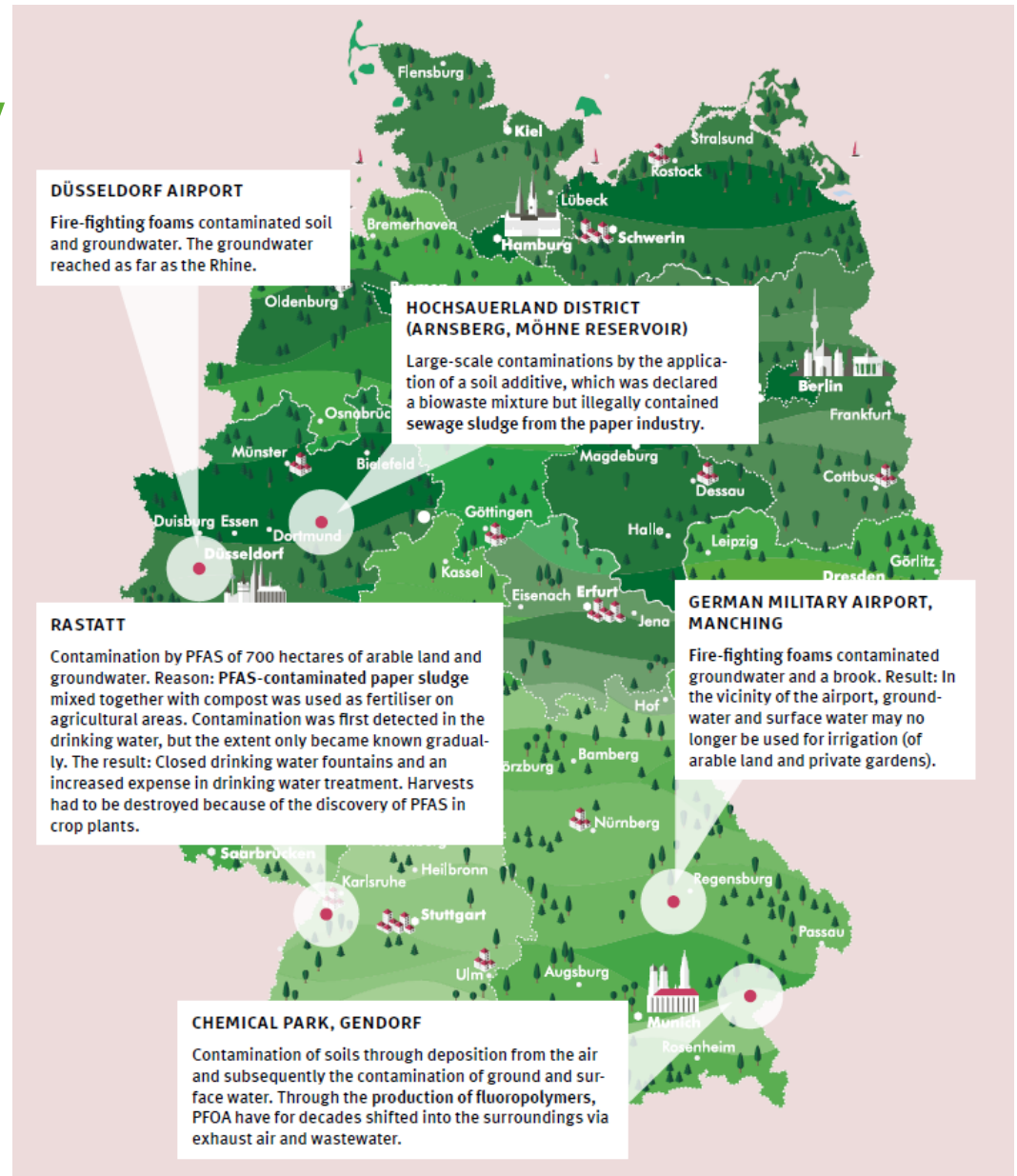
PFAS Pollution and Agricultural Land Use – a German Example

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PFAS Hotspots in Germany

- Airports
- (former) Military sites
- Fluorochemical industry
- Agricultural areas



The Rastatt Case in Germany

Starting point in 2012

Water provider detected PFAS in drinking water

Investigations:

- >8000 soil samples
- 9900 ground water samples
- >1240 surface water samples
- ~ 2200 plant samples

Extent of the contamination:

- 1105 ha contaminated agricultural area (ca 1500 soccer pitches);
- 58 km² contaminated groundwater (180 Mio m³)

Source:

most probably compost mixed with paper sludge beginning in 2006

Concern:

Human exposure via drinking water, feed and food



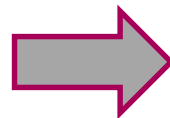
Goals and Measures

Maintaining agricultural production opportunities



Ensuring consumer protection when farming on PFAS-contaminated land

High uptake potential	Low uptake potential
Strawberry	Onion
Wheat	Oats and barley
Asparagus	Rapeseed
Corn plants	Rye
Soy	Corn kernel
Tomato	Raspberry



Measures

- Pre-harvest monitoring
- Derivation of cultivation recommendations
- Individual farm advice
- Development of a management and minimization concept

Thank you for your attention

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