



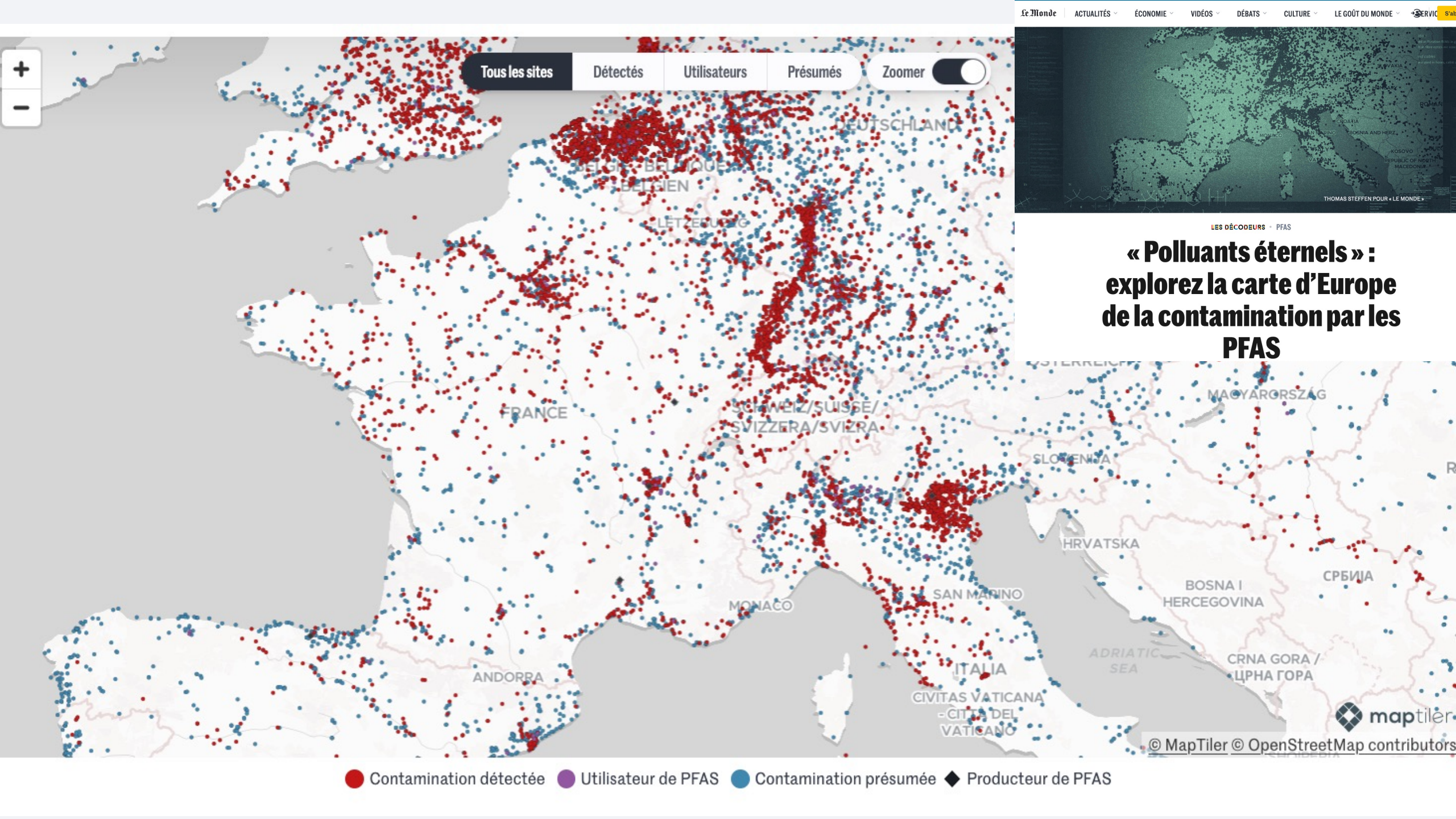
chemsec

INTERNATIONAL CHEMICAL SECRETARIAT

WHAT WE DO AT CHEMSEC

- Drive the political discussion on hazardous chemicals
- Challenge companies to improve their chemicals management
- Develop online tools to help companies switch to safer chemicals
- Inform investors about risks and opportunities in the chemical industry





Tous les sites

DéTECTÉS

UTILISATEURS

PRÉSUMÉS

Zoomer



« Polluants éternels » : explorez la carte d'Europe de la contamination par les PFAS

- Contamination détectée
- Utilisateur de PFAS
- Contamination présumée
- ◆ Producteur de PFAS



GLOBAL PFAS CRISIS

- 17,000 contaminated sites in EU
- Concentrations above the safe levels in the blood of most humans
- Omnipresent in food and water
- Overstepped the planetary boundaries
- Persistency, in combination with many other hazard classifications

SOCIETAL COSTS OF PFAS: €16 TRILLION

PFAS revenue per year:
€26 billion 



Whale vs dolphin. The profits of PFAS are not even in the same ballpark as the societal cost.

PFAS market price: €19 per kg

True cost*: €18,374 per kg

*Including societal costs

The average market price for PFAS is €19 per kilogram. However, if you include all the societal costs, the real price is something completely different.



THE PRICE OF PFAS

- Health effects
- Remediation costs
- In total: huge social costs
 - **\$16 trillion annually!**
- Negative impact on businesses
- Adverse effects on biodiversity

[Link to ChemSec research](#)

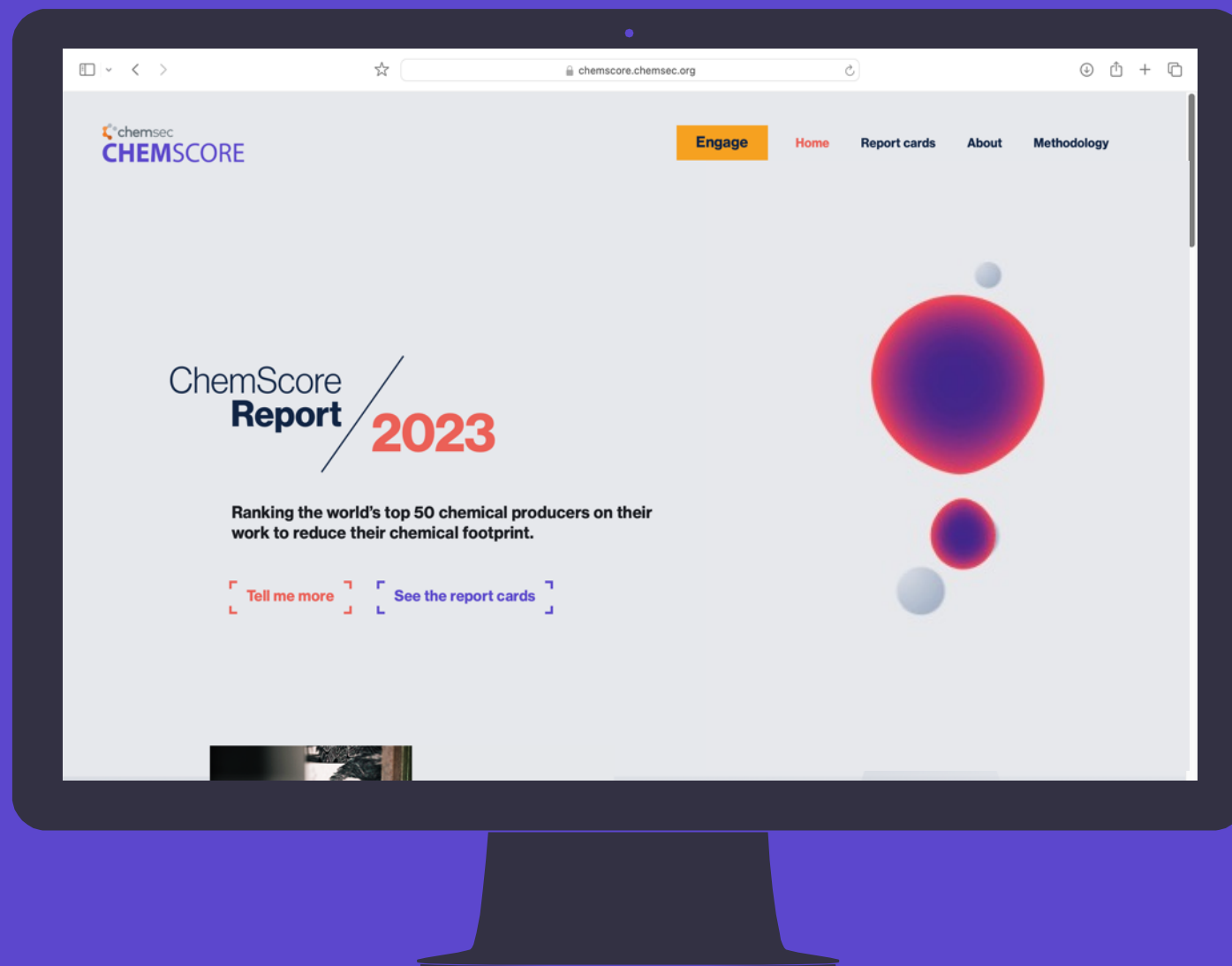
THERE CAN BE NO GREEN TRANSITION WITH PFAS

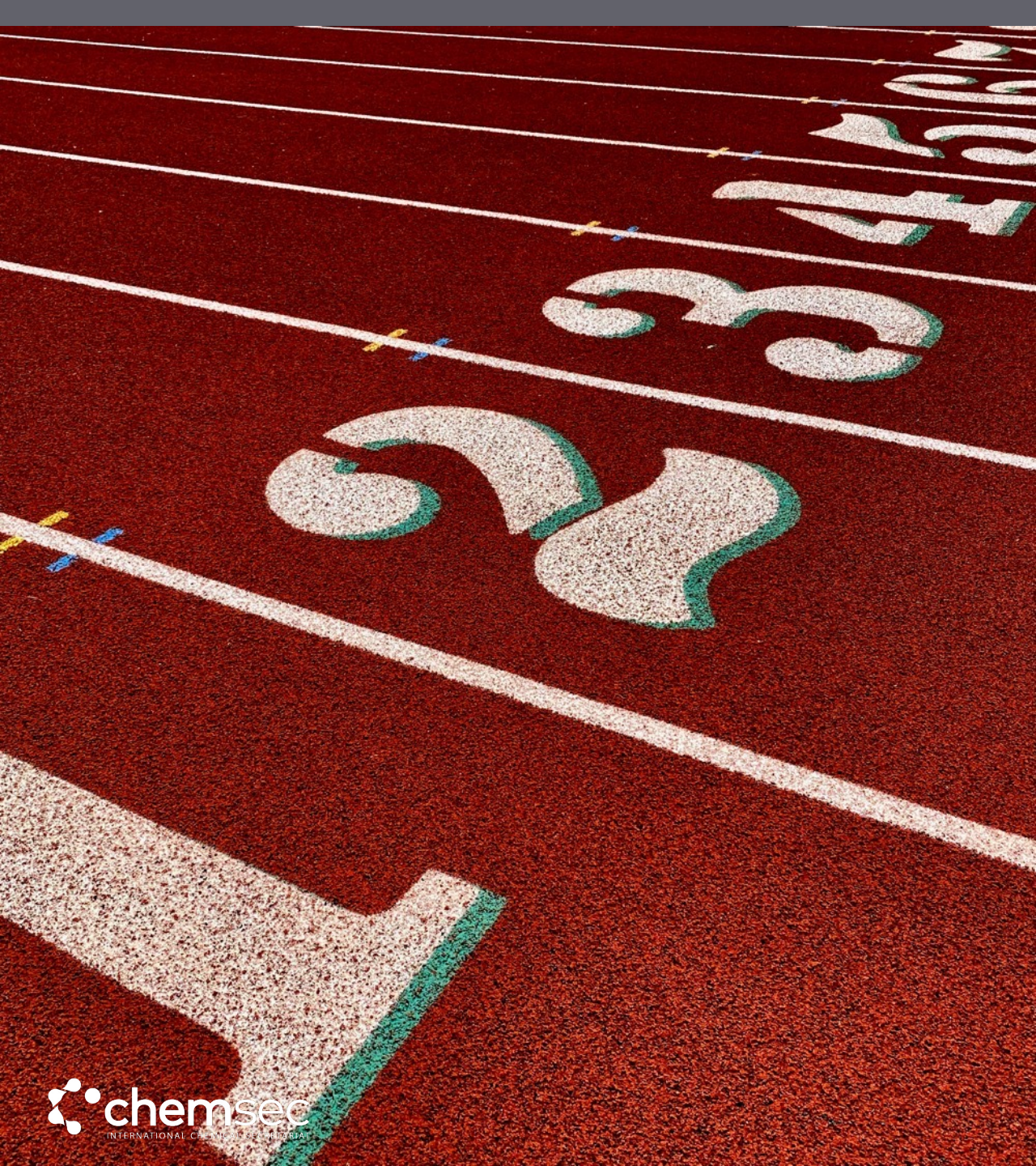
- Only a small part of PFAS uses are attributed to critical uses for society
- For many uses there are alternatives available, or under development
- Derogations for uses give time for development of alternatives
- No transition can be called green if it contributes to the PFAS crisis
- Fluoropolymers and F-Gases are also PFAS

ChemScore ranks the 50 world's largest chemical producers on their efforts to reduce their chemical footprints.

Aim:

1. Investment transfer from worst to the best performers
2. Chemical Sector Benchmark





CHEMSCORE 2023

- Four points of view
 - 1) Hazardous product portfolio (18 points)
 - 2) Development of safer products (12)
 - 3) Management & transparency (12)
 - 4) Lack of controversies (6)
- Only use public information
- Maximum score 48 points

The aim is to fill the gap in ESG rankings

DETAILS CATEGORY 1

- Production of hazardous chemicals
 - Most hazardous substances + **PFAS**
- The aim is to highlight financial risk
 - Regulatory risk
 - Future litigations





ADDED PFAS FOCUS

COMPANY	PFAS CHEMICALS
Chemours ●	63
3M	54
Solvay	36
AGC ●	15
Honeywell ●	15
Bayer	13
Daikin ●	12
BASF	12
Arkema	10

● Companies added in 2023



CHEMSCORE – DETAILS CATEGORY 2

- Development of safer products
 - Hazard assessments
 - Hazard-based cut-off criteria
 - Biobased feedstocks
 - Recycled feedstock

Aim:

- Is the company fit for the future?

CHEMSCORE – DETAILS CATEGORY 3

- Management & Transparency
 - Corporate strategies
 - Circular economy
 - Transparency

Aim:

- To see if the management is ready to change



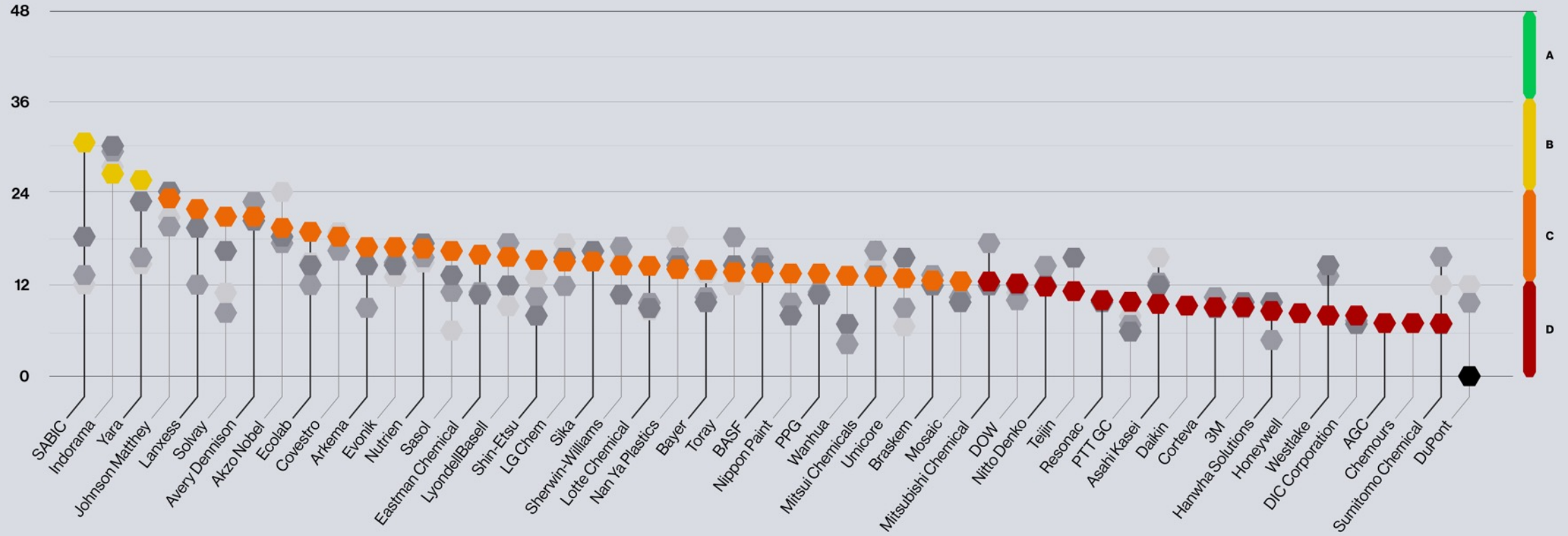
CHEMSCORE – DETAILS CATEGORY 4

- Controversies
 - Ability to follow regulation
 - Ability to obey own policies
 - Walking the talk

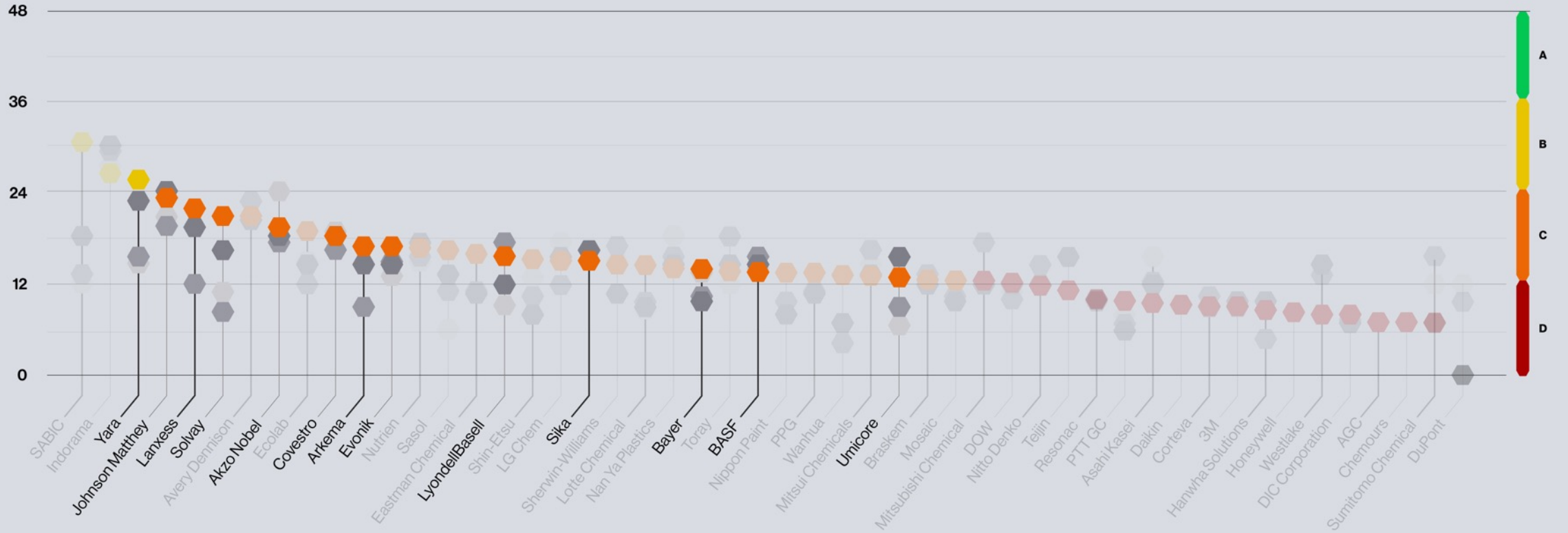
Aim:

- The control station of practise

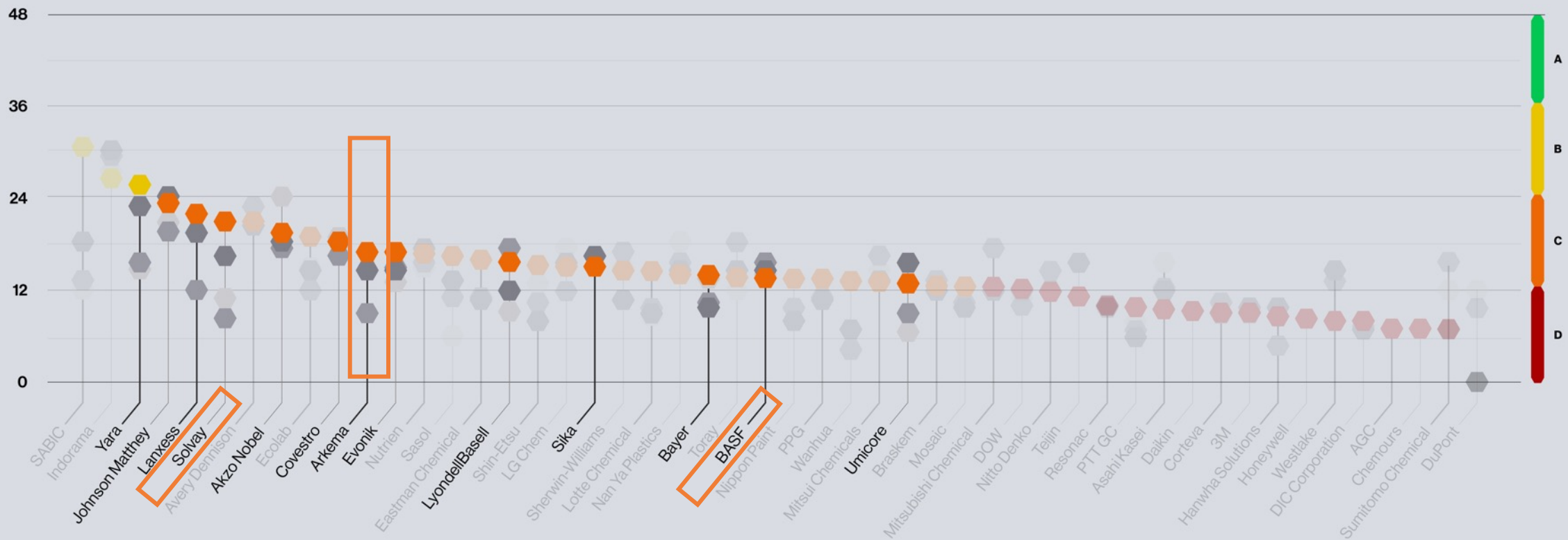
ChemScore: year to year



ChemScore: Europe



ChemScore: Europe



ARKEMA'S BUSINESS

- **Advanced materials (38%)**
- high-performance polymers, surfactants
- **Coatings (28%)**
- resins, absorbents
- **Adhesives (25%)**
- sealants, waterproofing products
- **Intermediates (9%)**
- thermoplastic polymers and F-gases
- **Largest market**
- Industry (28%)
- According to [our report](#), one of the 12 largest PFAS producers in the world.



03. SOLUTIONS

“Most of the solutions and materials we offer contribute to meeting the sustainable development goals”

CHEMSCORE

Progress from 2021 – 2023

Upward move 9 points – 14 points, now 17 points

Category 1 Hazard Portfolio

15 persistent chemicals (0 points all years)

Category 2, Safer Alternatives

Good product assessment, have biobased and circular products

Category 3, Management & Transparency


Global SVHC disclosure including revenue

Category 4, Controversies

Some PFAS litigations – more to come



Arkema
France


Rank
11 / 50





Investor Initiative on Hazardous Chemicals

Supported by ChemSec



Öhman Fonder



cardano



50+ INVESTORS
\$10 TRILLION



Handelsbanken Fonder

