



Reference:

M. Nowak, *Environmental Strategy and REACH Management in a SME*, 4th ESA REACH Workshop, ESA HQ Daumesnil, Paris, 18th October 2022

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Environmental strategy and REACH management in a SME

18 October 2022, ESA, Paris, France

- 1- Long-term development strategy
- 2- REACH and other regulations as a tool for the product developments
- 3- Improved knowledge of impacts (health, environment, ITAR free) of the substances and mixtures
- 4- Independance, sustainability, and vision

Scope





MAP SPACE COATINGS is a French
SME, European leader for Space
coatings

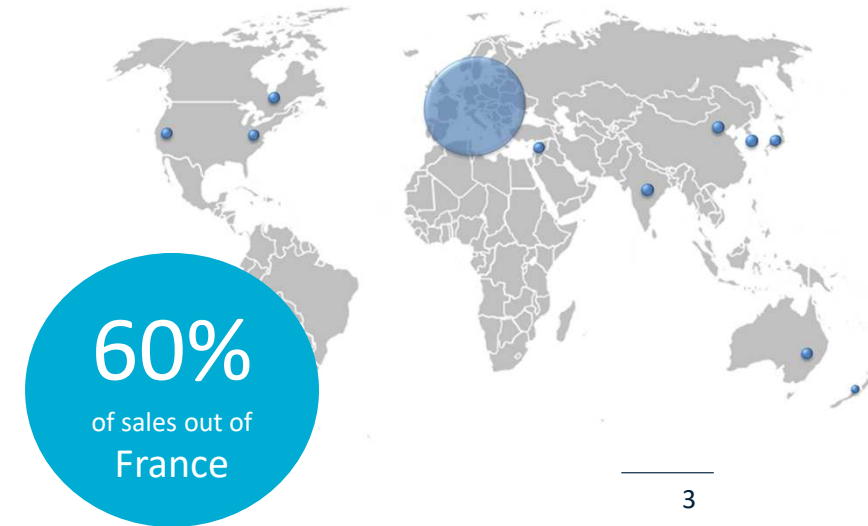
Corporate values: cohesion,
performance and transparency

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1- Long-term development strategy

Who are we?

We develop, manufacture and apply
thermal/electrical control coatings for
satellites and launchers

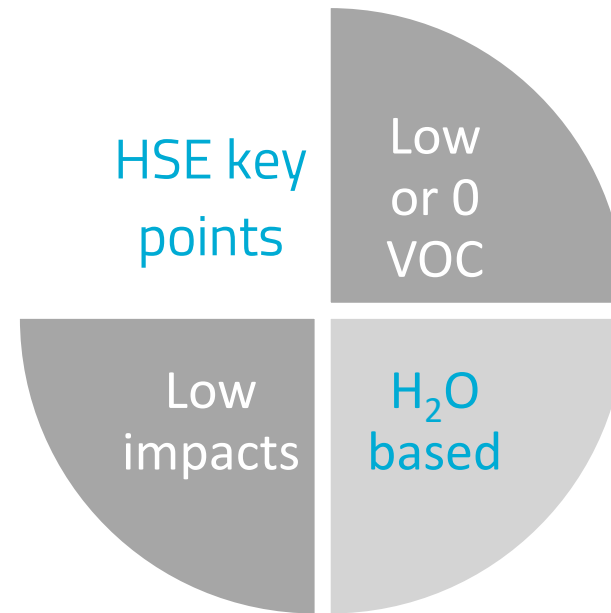




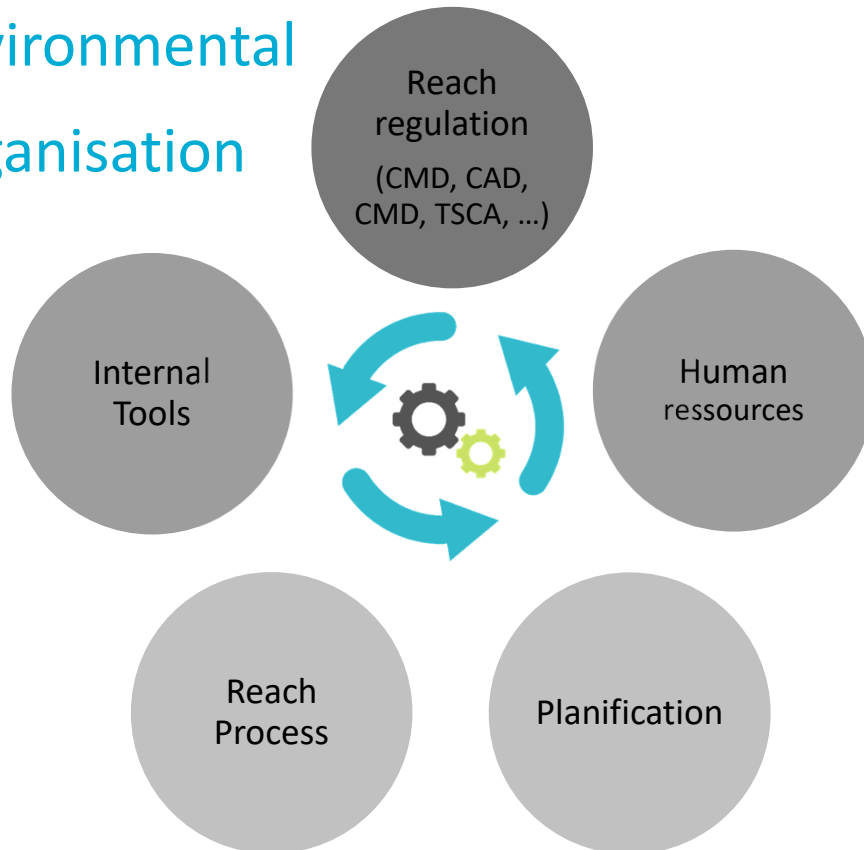
Our vision: to be the
World leader for
Space coatings

1- Long-term development strategy

Strategy



Our Environmental Organisation




2- REACH and other regulations as a tool for the product developments

Regulatory Monitoring

Our range of products
&
New developments

Customers



Regulatory monitoring

Regulatory check (ECHA, TSCA,...)

Anticipation through MPTB meetings

Internal REACH status

MSDS - Substances list (CAS) (*)

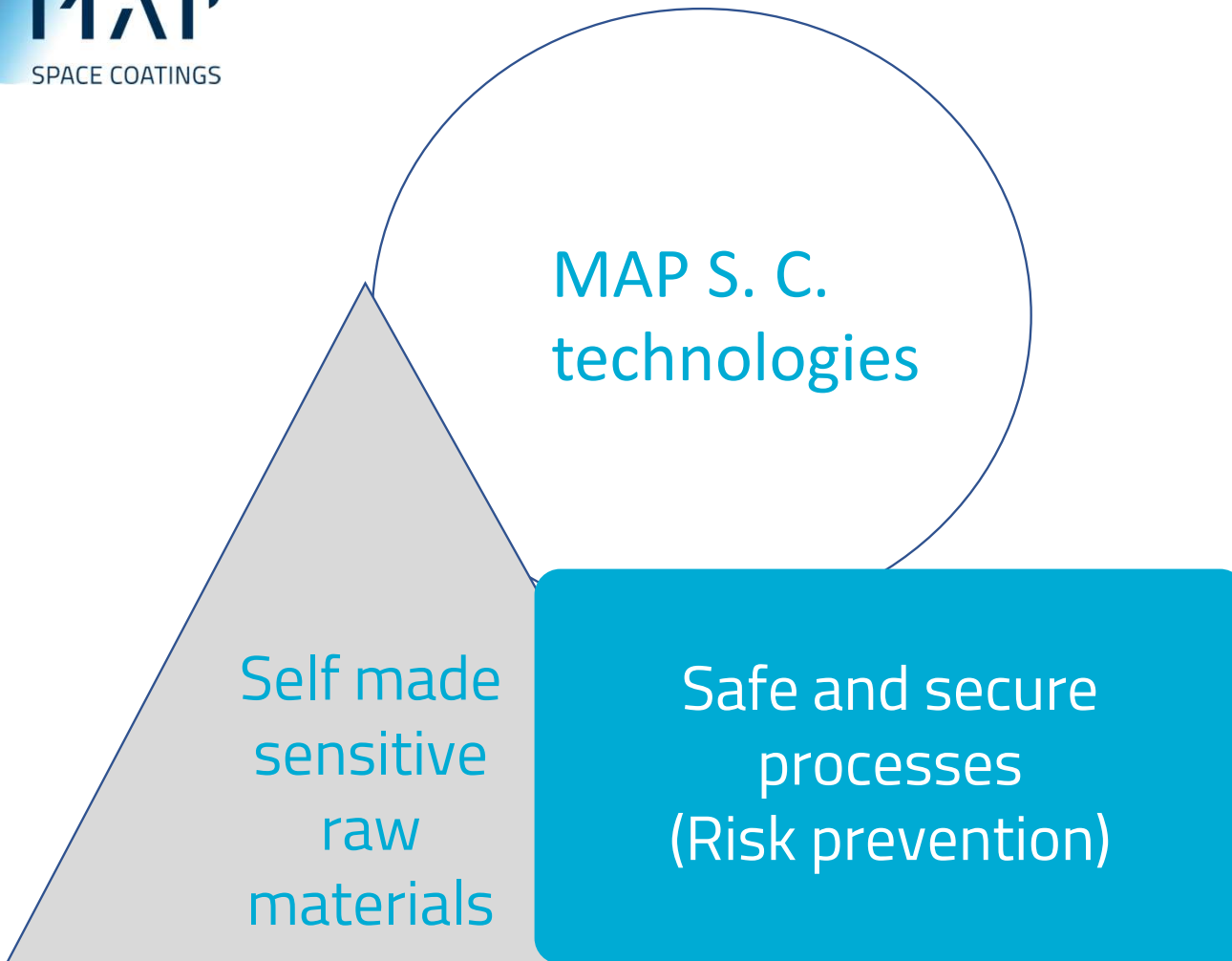
Substitution/obsolescence plan

Communication & support to qualifications

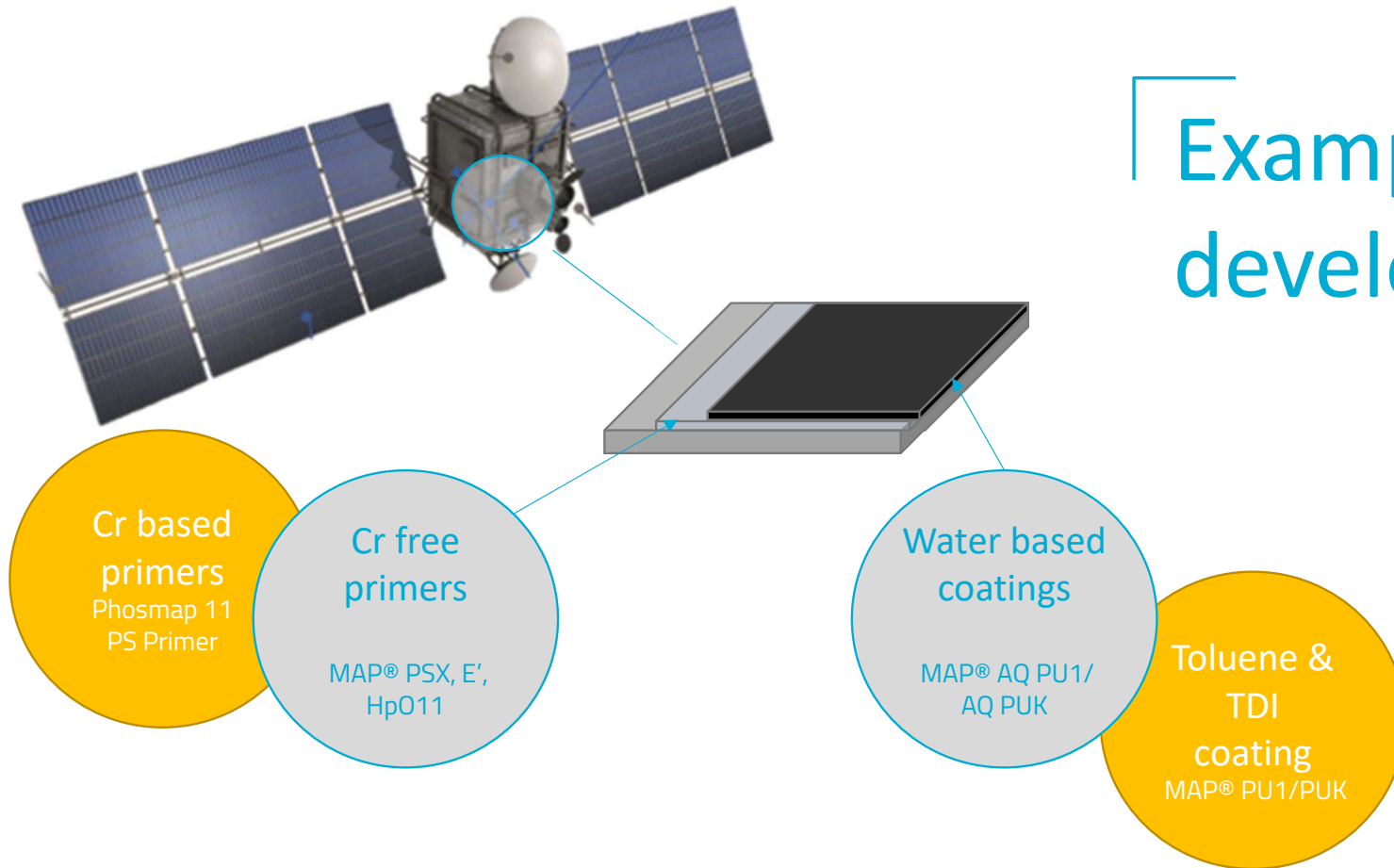
Suppliers

 **R&D > Methods > manufacturing processes** 

2- REACH and other regulations as a tool for the product developments



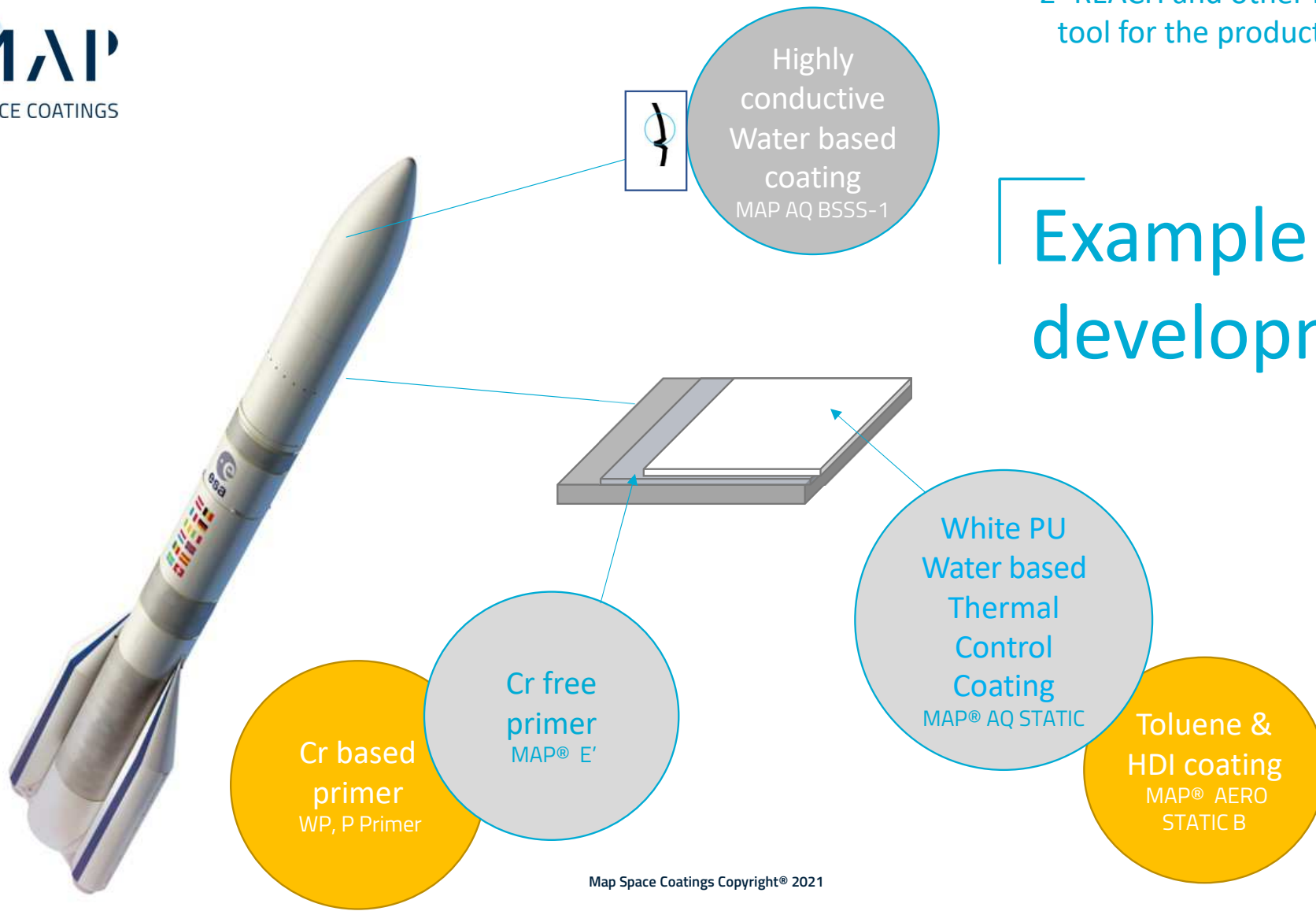
Based on our strategy, product developments under REACH process



Example of developments

2- REACH and other regulations as a tool for the product developments

Example of developments



3-Improved knowledge of impacts
(health, environment, Itar free) of the
substances and mixtures

Better knowledge of
impacts & uses

Expertise

Communication

ERP

Added values: no
dependency, no
external technology

Knowledge

Today and for the future

More independent with a low impact and sustainable
substances and mixtures used, but also...

Overall product improvement: digitalization, responsiveness,
packaging

Sustainability is a key word and a vision to move towards eco-
design and a global life cycle

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REACH : Registration, Evaluation and Authorisation of Chemicals

CAS : Chemical Abstracts Service

ECHA : European Chemicals Agency

MPTB: Materials and Processes Technology Board (ESA)

SVHC: substances of very high concern

Candidate list: Substances of Very High Concern for Authorisation [<https://echa.europa.eu/candidate-list-table>]

Exemptions : can be polymers, medicines, cosmetics, fuels

CMD: Carcinogens and Mutagens Directive (Directive 2004/37/EC)

CAD: Chemical Agents Directive (Directive 98/24/EC)

CMR: Cancerogenic, mutagen and reprotoxic substance

French labour law-Code du travail (articles R. 4412-60, R. 4412-1 à R. 4412-57)

CSS: Chemicals strategy for sustainability [<https://echa.europa.eu/hot-topics/chemicals-strategy-for-sustainability>]

REACH status [MAP SPACE COATINGS status: registred substance/out of scope/authorization/restriction/CoraP/...

MSDS : Material Safety Data Sheets

VOC: Volatil organic compounds

TSCA: Toxic Substances Control Act [<https://www.epa.gov/tsca-inventory>]

California 65 : Safe Drinking Water and Toxic Enforcement Act of 1986 [<https://oehha.ca.gov/proposition-65>]

ERP: Entreprise resource planning

HSE: Health, Safety and Environment