



Introducing MAP SPACE COATINGS

April 2025

map-coatings.com

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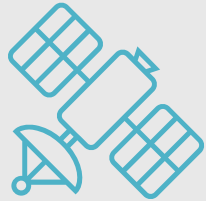
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Our company's DNA in a nutshell



OUR CORE BUSINESS

- Develop, manufacture and apply high-performance surface coatings on our customers' equipment



OUR MISSION

- Securing our customers' missions...
- ...through a combination of robust and qualified products, solutions and services



OUR PLAYGROUND

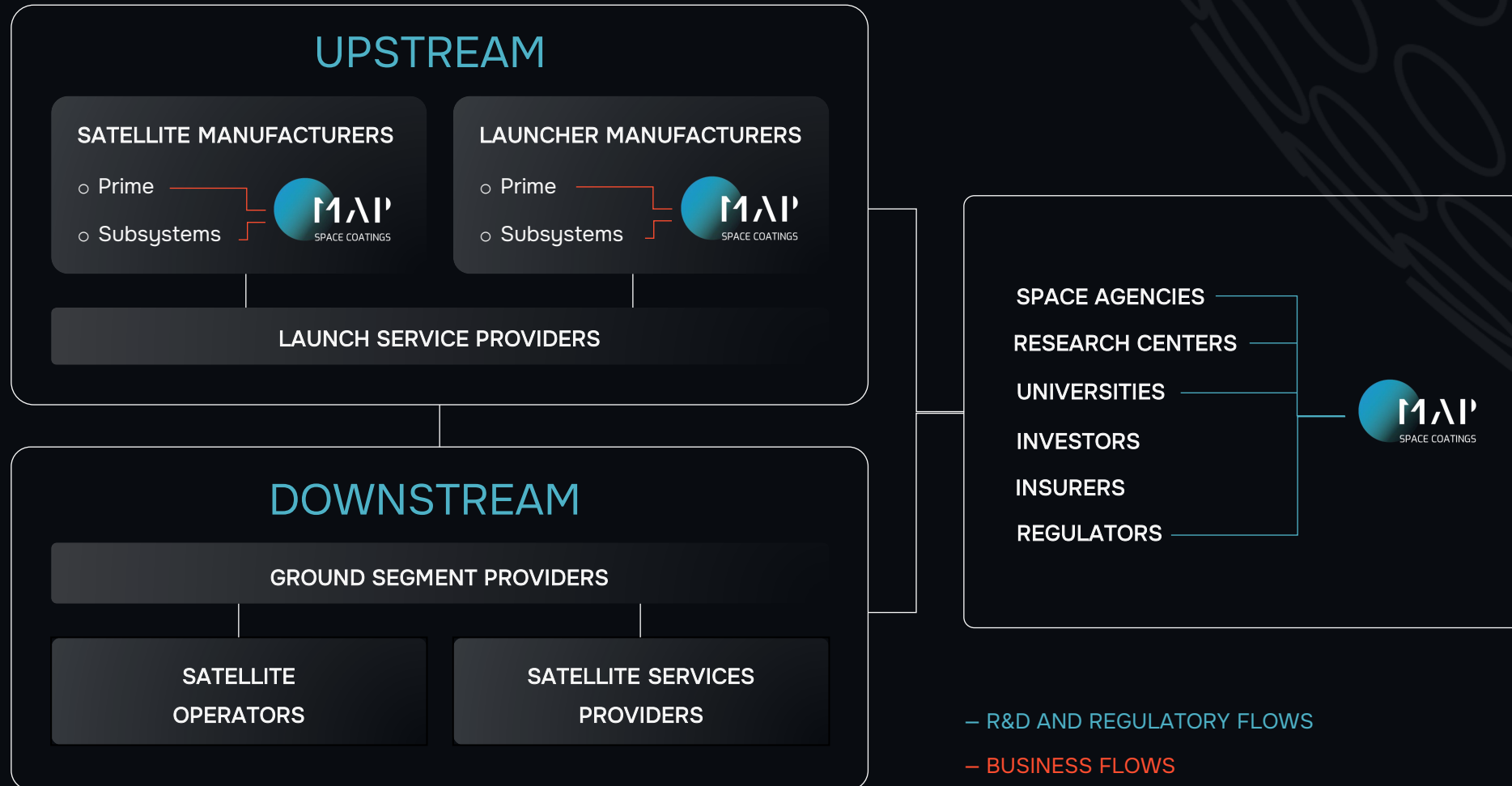
- Space
- Aeronautics



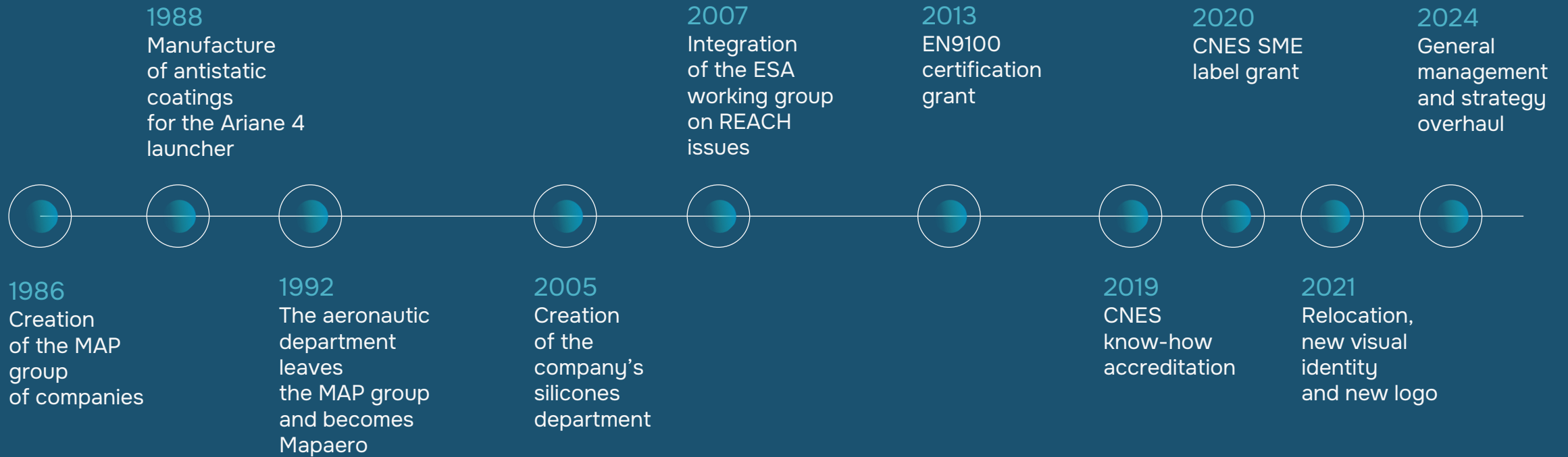
OUR CUSTOMERS

- Satellite manufacturers and related equipment providers
- Launch vehicle manufacturers and related equipment providers
- Aircraft manufacturers and related equipment providers

Where we stand along the space value chain



Our company's history: A 40-year journey



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Your strategic business partner for space coatings



> PRODUCTION



> APPLICATION



> SOLUTIONS

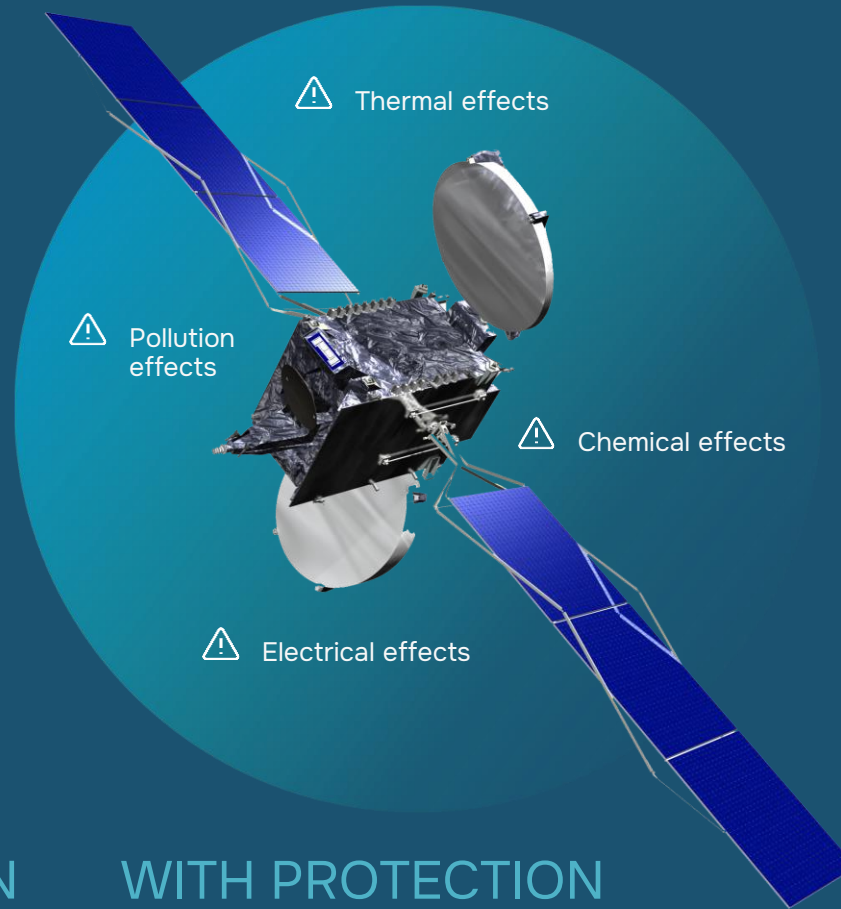
Securing your satellite mission

ENVIRONMENTAL CONSTRAINTS

- Thermal cycles (-200°C / 200°C)
- Vacuum
- Atomic oxygen
- Solar radiation (UV, e-, protons)
- Heat generated by spacecraft equipment
- Heat reflected by the Earth
- Infrared radiation from the Earth

WITHOUT PROTECTION

- ✗ Lowered in-orbit lifetime
- ✗ Complete/partial mission failure risk
- ✗ Cost impact



WITH PROTECTION

- ✓ Interior and exterior equipment made safe
- ✓ Mission secured

OUR SOLUTIONS

- Black thermal control coatings
- Grey thermal control coatings
- White thermal control coatings
- ATOX control coatings
- Adhesives
- Lubricants
- Conformal coatings

Our products for satellites

1

Black thermal control coatings

Hot thermal control coatings
→ Internal satellite walls, electronics boxes, waveguides, optical baffles

AQ-PU1
AQ-PUK
PU1
PUK
PNC
PNAS
PN
EPOX BLACK ESD
HT1607

2

Grey thermal control coatings

Low emissivity equal to absorptivity
→ Satellite's interior

RM27

3

White thermal control coatings

Cold thermal control coatings for external satellite application
→ Antennas, waveguides, baffles, satellite's back face

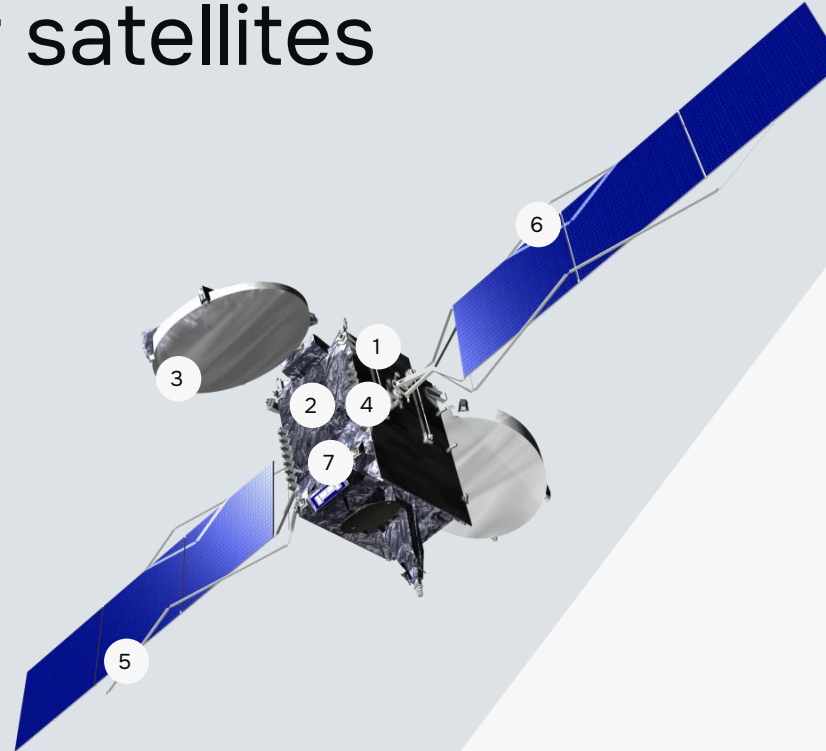
SG121FD
SG122FD
SCK5N
PCBE
PSBN

4

ATOX control coatings

Atomic oxygen protection
→ External Kapton part, satellite's back face

MAP® ATOX K
MAP® ATOX41B
MAP® ATOX 41BUV



5

Adhesives

Thermal and/or electric conductive adhesives
→ Optical solar reflectors, solar cells, electronic boxes

MAPSIL®
QS1123 ThixoB
QS1123 ThixoB UV
EA83
TA77
TA66
ELEC LD

6

Lubricants

Low outgassing lubricants
→ Bearings, inertial wheels, solar array deployment systems

MAPLUB®
PF100c & PF101c
SH100c & SH101c

7

Conformal coatings

Protective silicone varnish
→ Printed circuit boards

MAPSIL®
213
213B
213 BSP
213 BUV
214 BV
QS1123

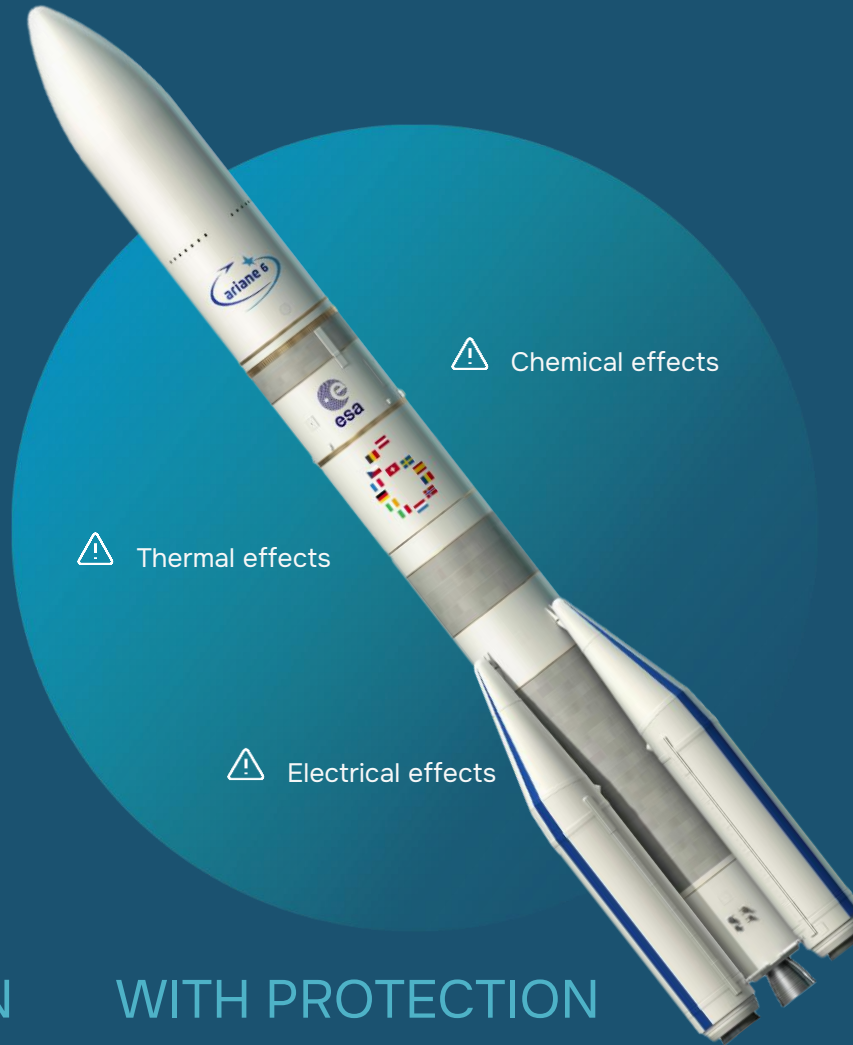
Securing your launcher mission

ENVIRONMENTAL CONSTRAINTS

- Firing conditions
- Vibrations
- Thermal flow
- Electrostatic flow
- Thermal shock
- Partial vacuum

WITHOUT PROTECTION

- ☒ Complete/partial launch failure risk
- ☒ Cost impact



⚠ Chemical effects

⚠ Thermal effects

⚠ Electrical effects

OUR SOLUTIONS

- White antistatic silicone mastic
- Thermal protection coatings
- High conductive protection coatings
- Grey thermal control coatings
- White PU-based antistatic coatings
- High conductive water-based coatings

WITH PROTECTION

- ☑ Mission secured before launch
- ☑ Mission secured during launch

Our products for launchers

1

White antistatic silicone mastic

White conductive and thermal control
→ Head of solid rocket, booster

MASTIC Silicone AS
MAPSIL[®] AS

2

Thermal protection coatings

High temperature protection with low density and excellent metallic substrate adhesion
→ Fairing, head of solid rocket, booster

MAPSIL[®] CORK

3

High conductive protection coatings

Electrically lightning conductive
→ Base and top coat motor nozzle

MAPELEC[®] SS02
MAPSIL[®] CEPT



4

Grey thermal control coatings

Low emissivity equal to absorptivity
→ Interior head of solid rocket

RM27

5

White PU-based antistatic coatings

White antistatic, anti-corrosion, reusable water-based coating
→ Fairing, cryogenic part, solid rocket, booster

MAP[®] AQ Static
MAP[®] AQ APPRET
MAP[®] AQ Launcher

6

High conductive water-based coatings

Electrically high conductive silver based
→ Base coat between fairing and solid rocket

MAPELEC[®] AQBSS-1

Securing your aircraft mission

ENVIRONMENTAL CONSTRAINTS

- Air ionization
- Storms
- Cloud solid particles
- Air rubbing
- Electromagnetic fields

⚠ Communication system effects

⚠ Magnetic disturbance

⚠ Electrical shocks

OUR SOLUTIONS

- PU-based antistatic coatings
- PU-based magnetic shielding coatings

WITHOUT PROTECTION

- ☒ System damage
- ☒ Distorted values

WITH PROTECTION

- ☑ Well-functioning measuring devices



Our products for aircraft

1 **PU-based antistatic coatings**

White or green base coating fully transparent to radio signal
→ Aircraft nose, drift and plane

MAP[®] AERO Static F
Static F RA153/T105

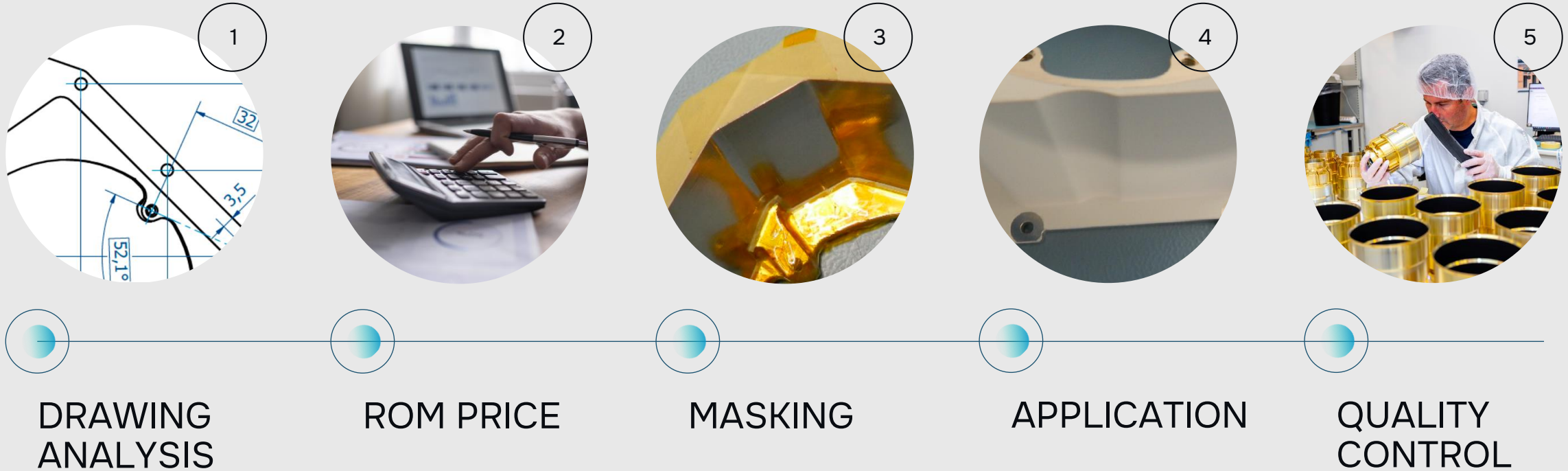
2 **PU-based magnetic shielding coatings**

Coating to evacuate electrostatic charges
→ Electronic boxes

MAPELEC[®] AQBCA-1
MAPELEC[®] AQBGA-1010



Application



Solutions

PRODUCT DEVELOPMENT

- Projects performed in collaboration with both public (CNES, ESA ...) and private partners
- On-going R&T projects:
 - ✓ Flexible cover glass
 - ✓ Water-based sustainable coatings
 - ✓ Extended lifespan coatings for harsh space environment
- Custom packaging

CHARACTERIZATION

- Thermo-optical analysis:
 - ✓ Solar absorbance
 - ✓ Infrared emissivity
- Thermal analysis:
 - ✓ Thermal gravimetry analysis
 - ✓ Differential scanning calorimetry analysis
- Mechanical analysis:
 - ✓ Tensile strength
 - ✓ Dynamic mechanical
- Laser granulometry analysis

QUALIFICATION

- Compliant with ECSS
- Adherence
- Outgassing properties
- Thermal cycling ageing (atmospheric pressure and vacuum)
- Solar radiation (UV, e-, protons)
- Atomic Oxygen
- Qualification report

Value proposition wrap-up: Integrated service offering under one roof



SATELLITES

Products

White thermal control, black thermal control, adhesives, lubricants

Application

Coatings application on satellite pieces

Solutions

Delta qualification, hand kit repair, syringe conditioning, product innovation



LAUNCHERS

Products

Antistatic protection, conductive coatings

Application

Coatings application on launcher pieces

Solutions

Delta qualification, product innovation



AIRCRAFT

Products

Antistatic protection, base coating

Application

Coatings application on aircraft pieces

Solutions

Product innovation



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What our customers can expect from us



> PRODUCTION

- Access to a complete product range (70 references as of now)
- Robust conception leveraging both strong internal raw material design and manufacturing capabilities
- 40-year flight heritage
- Space qualification in compliance with CNES/ECSS standards
- REACH-compliant
- ITAR-free
- EN 9100 / ISO 9001-2015 certifications
- Environmental responsibility through EcoVadis label

> APPLICATION

- Over 100,000 pieces coated since 1986 (i.e. 3,000 on average per year)
- Specific application service accreditation (ASF CNES) since 2019
- CNES SME label agreement since 2020

> SOLUTIONS

- Customized services that meet customers' specific requirements and allow altogether optimal performance, longevity and productivity increase
- Packaging
- Training



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They trust us



KONGSBERG



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Management team



Pierre VALENTI
Chief Executive Officer
p.valenti@map-coatings.com



Laurent FRANCK
Chief Operations Officer
l.franck@map-coatings.com



Jean-Pierre PARADISO
Chief Commercial Officer
jp.paradiso@map-coatings.com



Aurélie LEONARDI
Chief Technical Innovation Officer
a.leonardi@map-coatings.com

A player fully involved in its ecosystem



State-of-the-art facilities and equipment

4,600 m²

TOTAL SURFACE AREA



TOTAL INVESTMENT COST

€6,5 million

DELIVERY DATE



April 2021

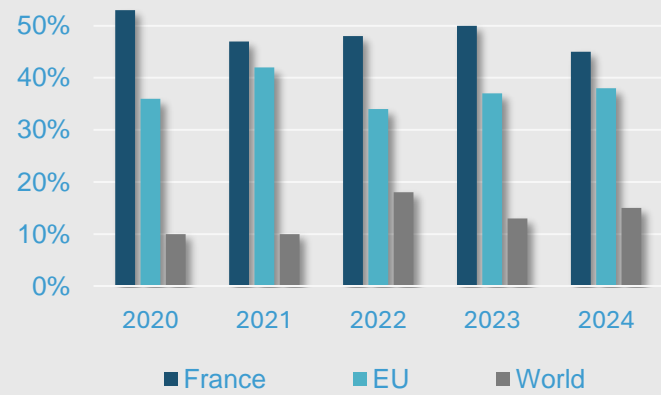
Mazères,
France



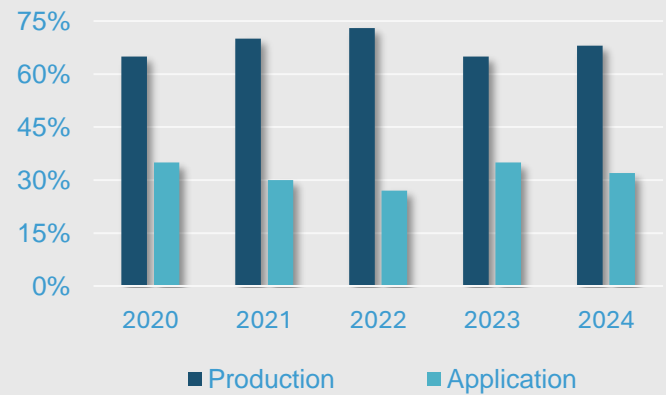
LOCATION

2020-2024 turnover breakdown

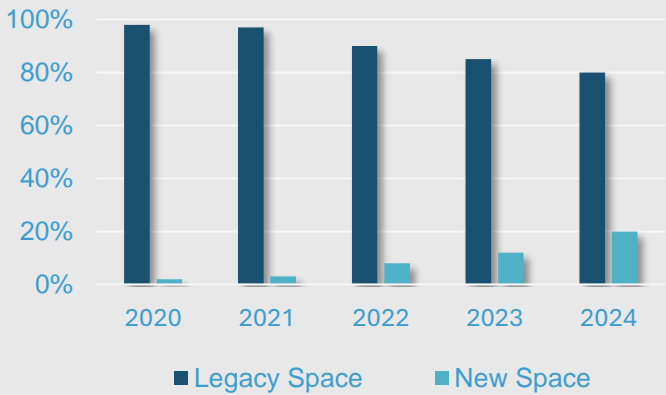
BY CUSTOMERS' GEOGRAPHICAL ORIGIN



BY STRATEGIC BUSINESS AREA



BY CUSTOMERS' BELONGING SEGMENT



Key corporate indicators

21

permanent
employees

40

countries

70

product
references

4,600 m²

factory

7,5 M€

turnover

11 M€

tools production
assets

100,000

pieces coated
since 1986

1

single
shareholder

450

customers
worldwide

Ecovadis

June 2024

Carbometrix

October 2024

39

years
since 1986





LAYERING SUCCESSES

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