Real-Time Macroeconomic Intelligence
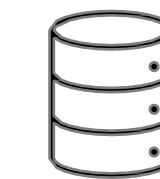
Powered by Big Data Analytics

100+ TEAM SCRUTINISING BIG DATA & LEVERAGING AI TO EXTRACT VALUE

TEAM OF EXPERTS

- **70+ Data Scientists** in Economy, Computer Vision, Natural Language Processing and **20+ Quant Analysts**

- **25 nationalities** covering 18 different languages, including numerous dialects

- Direct Access to **250 researchers** through R&D projects

UNIQUE PARTNERSHIP WITH SPACE AGENCIES

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

ONERA
THE FRENCH AEROSPACE LAB

NASA

JPL
Jet Propulsion Laboratory

eesa

cnes

QUANTCUBE
TECHNOLOGY

EXCLUSIVE REAL-TIME DATALAKE

Textual data

- Social Media
- News
- Blogs
- Patents

Geolocation data

- Shipping Traffic
- Airline Traffic
- Corporate Assets
- Real Estate

Satellite data

- Earth Observation
- Radar
- Atmospheric

Structured data

- Prices of Goods
- Prices of Services
- Corporate Loans

QUANTCUBE
TECHNOLOGY

TAKING THE PULSE OF THE ECONOMY

Daily estimate, non-revised and point in time

API
Web Portal

- ✓ Growth Nowcast
- ✓ Consumption Nowcast
- ✓ Commodity Nowcast
- ✓ Inflation Nowcast
- ✓ Manufacturing Nowcast
- ✓ Employment Nowcast

DELIVERING COMPETITIVE EDGES

1. **Detect Trends –** Ahead Of Market Consensus

2. **Anticipate –** The Publication Of Official Numbers

3. **Up to 10 years history –** For Daily Macro Data

4. **High correlation -** With Official Data

5. **Extensive coverage –** Developed And Emerging Markets

6. **Transparent Methodology -** To Explain Key Drivers

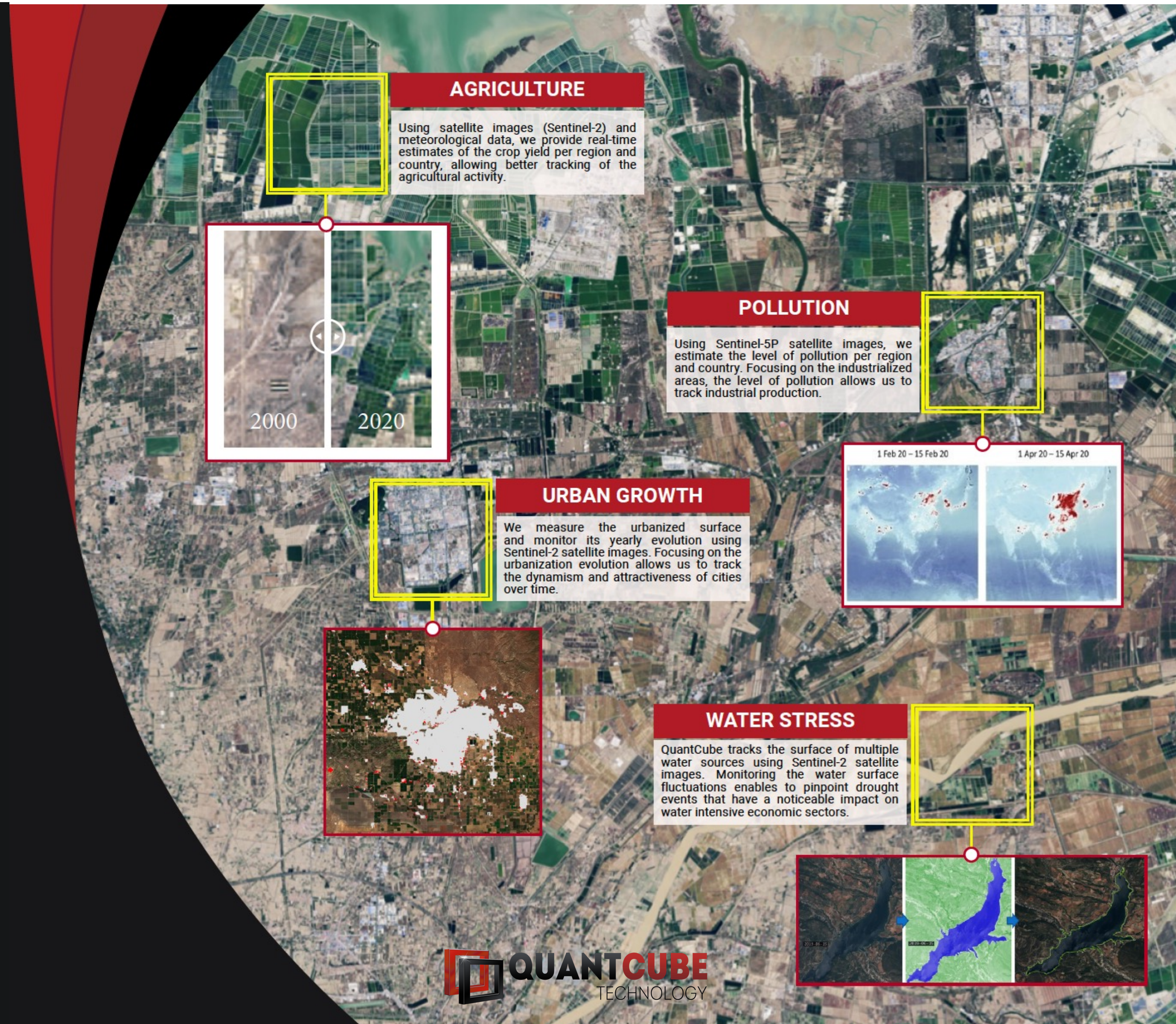# QuantCube Satellite images Analytics

SATELLITE IMAGES ANALYTICS
Applications

Using **satellite data analytics**, QuantCube Technology added to the existing product QuantCube Macroeconomic Intelligence Platform a significant added value layer, allowing to provide a granular vision of the activity of each sector of the economy.

QuantCube Technology has developed a new methodology of creating high frequency industrial macro-indicators based on **satellite images** through its collaboration with the CNES.

➤ Urban Growth Index
➤ Pollution Monitoring
➤ Agriculture Yield Index
➤ Water Stress Monitoring
➤ Deforestation Monitoring
➤ Etc..

AGRICULTURE

Using satellite images (Sentinel-2) and meteorological data, we provide real-time estimates of the crop yield per region and country, allowing better tracking of the agricultural activity.

2000   2020

POLLUTION

Using Sentinel-5P satellite images, we estimate the level of pollution per region and country. Focusing on the industrialized areas, the level of pollution allows us to track industrial production.

1 Feb 20 – 15 Feb 20   1 Apr 20 – 15 Apr 20

URBAN GROWTH

We measure the urbanized surface and monitor its yearly evolution using Sentinel-2 satellite images. Focusing on the urbanization evolution allows us to track the dynamism and attractiveness of cities over time.

WATER STRESS

QuantCube tracks the surface of multiple water sources using Sentinel-2 satellite images. Monitoring the water surface fluctuations enables to pinpoint drought events that have a noticeable impact on water intensive economic sectors.

QUANTCUBE TECHNOLOGY

QUANTCUBE'S COLLABORATIONS WITH THE CNES

R&D & DEMONSTRATOR PROJECTS SINCE 2017

2 Projects **R&T** **1** Project **SCO** **1 Demonstrator** **1** Project
with the ESA financed by BPI

Vehicles
Detection[1] *FloodDAM[2]* *Macroeconomic* *AI4GEO[3]*
& *Intelligence with*
Air Pollution *satellite images*
Monitoring

Our collaboration with the CNES helps us to:

✓ Develop a solid **expertise in satellite images analytics**

✓ Position QuantCube at the **forefront of innovation**

✓ Access **unique satellite datasets**

✓ Develop **new use cases** and research projects for civil applications

✓ Position QuantCube apart from other players, particularly those outside Europe

RECENTS ARTICLES & PUBLICATIONS

"QuantCube Technology Launches Advanced Agricultural Yield Forecasts for Key Commodities"

A-Team Insight
March 6, 2024

"Pollution Reveals What Russian Statistics Obscure: Industrial Decline"

Wall Street Journal
Mai 5, 2023

1. 'Vehicle detection and counting from VHR Satellites images' published with CNES (French Space Agency) & IRISA – Oct 2020
2. 'AI4GEO: Toward a global "3D Smart Map"' published with CNES & IGN & ONERA & AIRBUS – 2021
3. The SCO-FLOODDAM Project: Towards a Digital Twin for Flood Detection, Prediction and Flood Risk Assessments published with CNES & JPL – 2023

QUANTCUBE'S COLLABORATIONS WITH THE CNES

2 examples of demonstrator projects: FloodDAM & AI4GEO

FloodDAM

18 months (2022-2024)
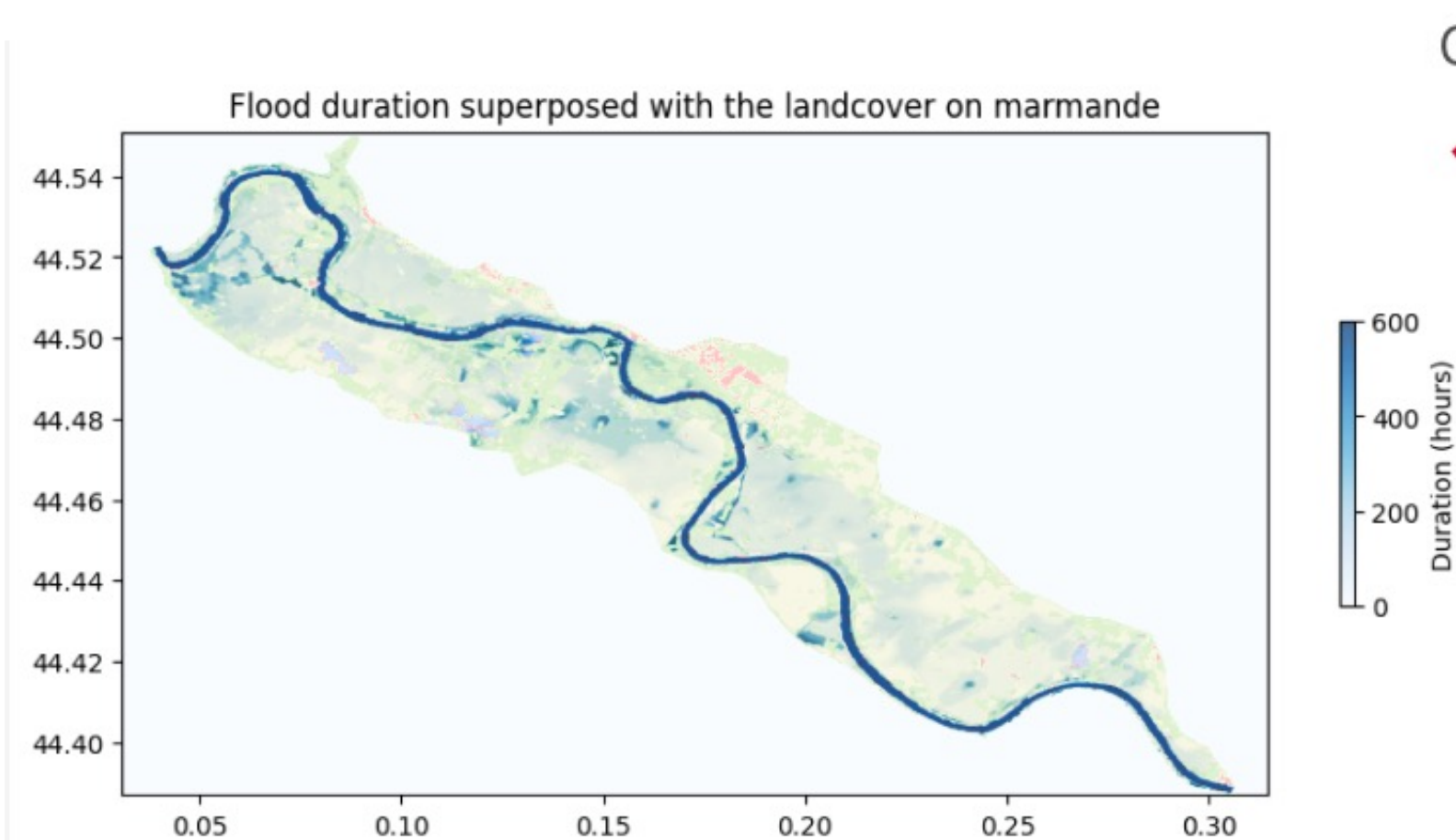Co-financed at 75% by the CNES

AI4GEO

4 years (2019-2023)
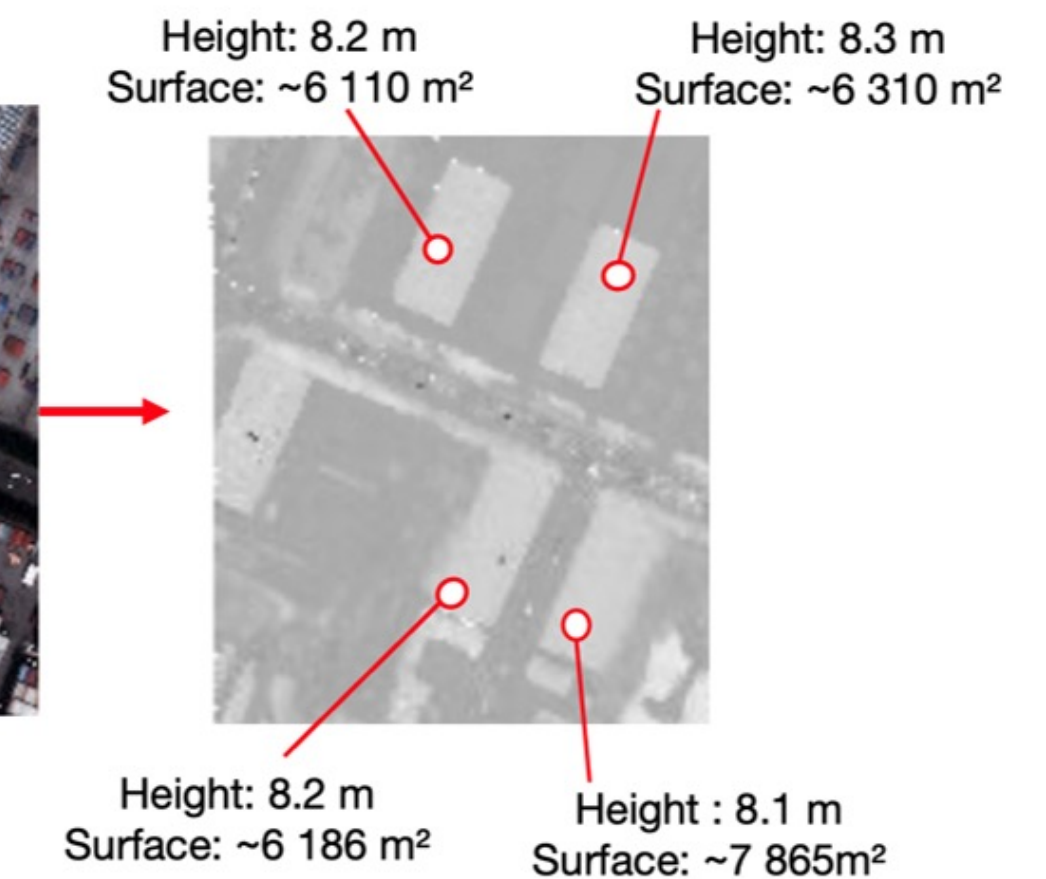Co-financed at 60% by BPI with 80% of recoverable advance and 20% of subvention

QuantCube combines FloodDam simulations with alternative data sources and QuantCube Asset Mapping database to estimate the financial risk of flooding of a region.

The AI4GEO project aims at developing an automatic solution for producing 3D geospatial information and new added-value services based on high resolution satellite images.

Flood duration superposed with the landcover on marmande

Cost Assessment

1 148 500$

Agriculture

Height: 8.2 m
Surface: ~6 110 m²

Height: 8.3 m
Surface: ~6 310 m²

Height: 8.2 m
Surface: ~6 186 m²

Height : 8.1 m
Surface: ~7 865m²

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