

EO current and future products and services – *Biodiversity / Nature Restoration*

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Biodiversity: Policies and initiatives



Nature Restoration Law

- **Objectives:**
 - Improve biodiversity
 - Increase the resilience of nature
 - Support natural climate protection
- **Time-bound targets** for restoration measures
- Assessment of target achievement requires **monitoring**

Article 11: Restoration of agricultural ecosystems

- (2) Member States shall put in place measures which shall ***aim to achieve an increasing trend*** at national level of at least two out of the three following indicators in agricultural ecosystems, [...]:
 - (a) grassland butterfly index;
 - (b) stock of organic carbon in cropland mineral soils;
 - (c) share of agricultural land with high-diversity landscape features.

EO & Biodiversity: Activities at MS level

NRL, Article 20: Monitoring

(9) Member State monitoring systems shall [...] maximise the access and use of **data and services from remote sensing technologies, earth observation** (Copernicus services), [...].

NRL, Article 14: National restoration plans

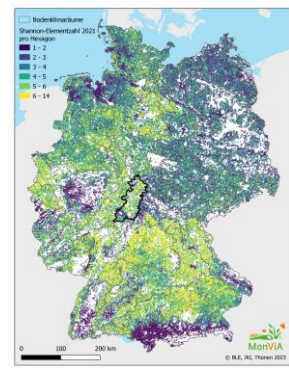
(9) Each Member State may, by [...] develop a **methodology to complement the methodology** referred to in Annex IV, in order to monitor high-diversity landscape features [...].

→ **Pework / overlap/ synergies** of current monitoring initiatives at national level?

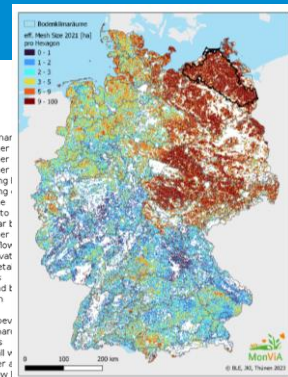
MonViA – Monitoring biodiversity in agricultural landscapes (in Germany)

Monitoring „high diversity landscape features“ in MonViA:

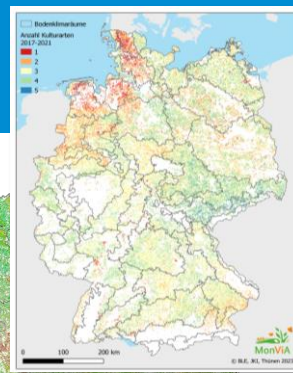
- Non-productive areas
- Fallow land
- Hedgerows
- Potential areas (Article 14(6))



MonViA-Indicator cropland diversity



MonViA-Indicator habitat configuration



MonViA-Indicator crop sequences

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Opportunities:

- Wall-to-wall products for continuous monitoring
- National activities support EU targets

Challenges of EO to support EU compliance assurance:

- Reliability / accuracy of data / products
- Complementary with CLMS products (e.g. VCC, SWF)
- Consistency (with other products / of time series)