# Awareness and consideration of ecosystem services in quarries restoration in Western Europe

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### Context

In Western European urbanized and intensive agricultural landscapes, extractive sites act as unique landscape features

Quarries are often seen as important refuges for a wide diversity of rare and threatened species

# Hypothesis

Increased biodiversity knowledge and ecosystem services perception by the extractive sector is expected to support reconciliation between industrial and biodiversity stakes

## Methodology

We explored levels of biodiversity and ecosystem services understanding through **102 face-to-face interviews** encompassing the diversity of actors of the sector:

- Director (14)
- Environmental manager (14)
- Site manager (31)
- Worker (29)
- Subcontractor (14)







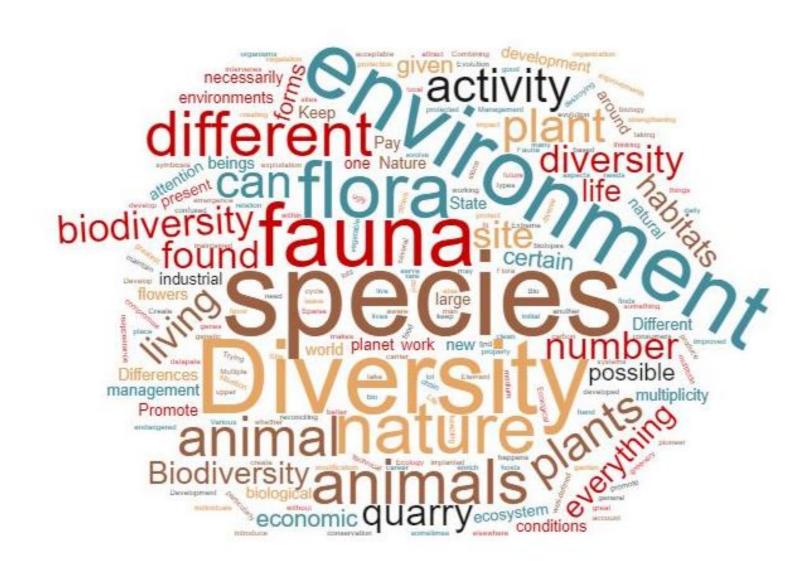




## Main results

- Quarries actors identified the various elements of biodiversity definition, linking biodiversity to ecosystem services
- Globally, quarries actors are prone to engage in biodiversity management, albeit with variation amongst positions
- Quarries actors valued cultural (non-material) services, among which *Living* place for plants and animals as the main ecosystem services

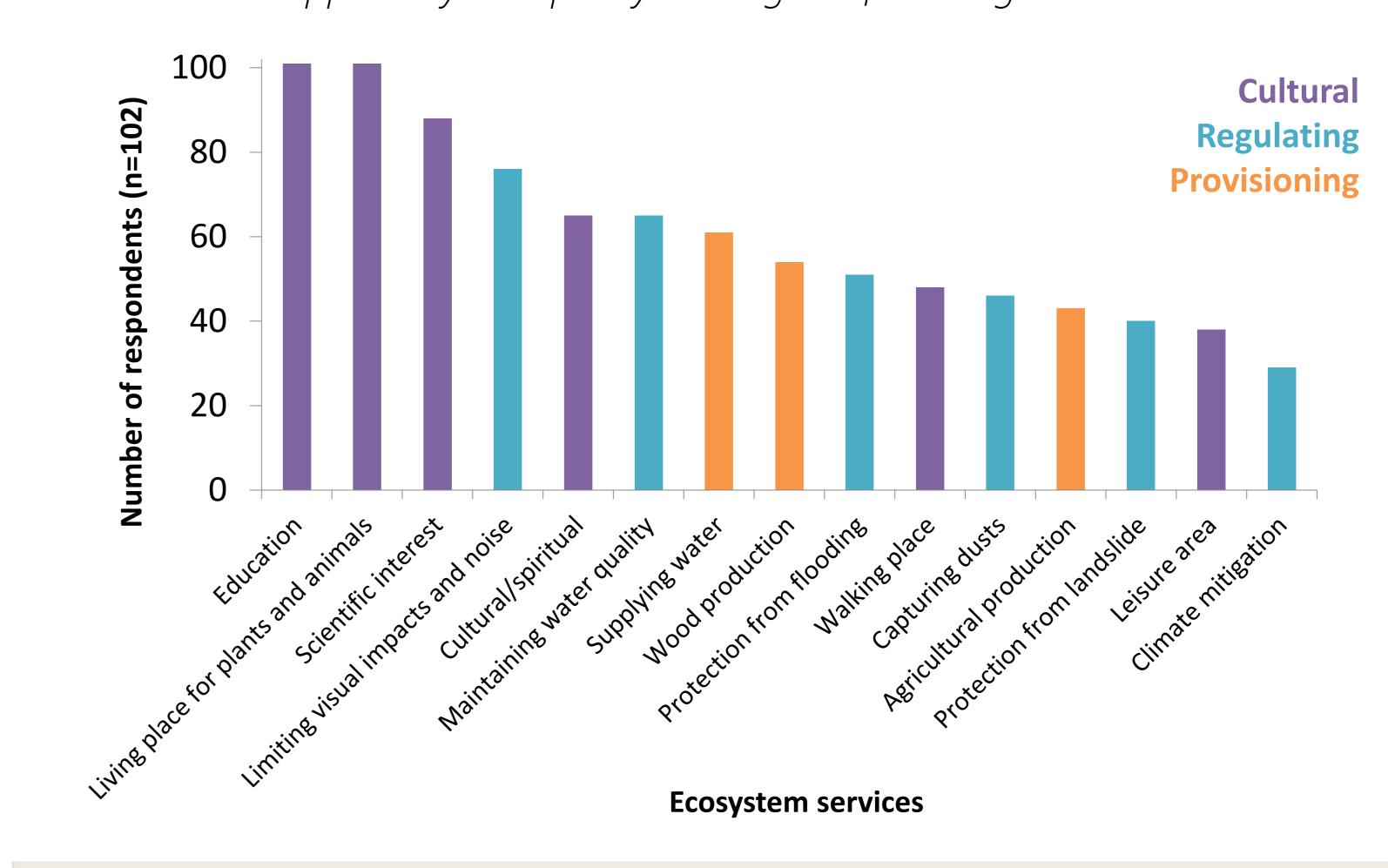
#### **BIODIVERSITY UNDERSTANDING**



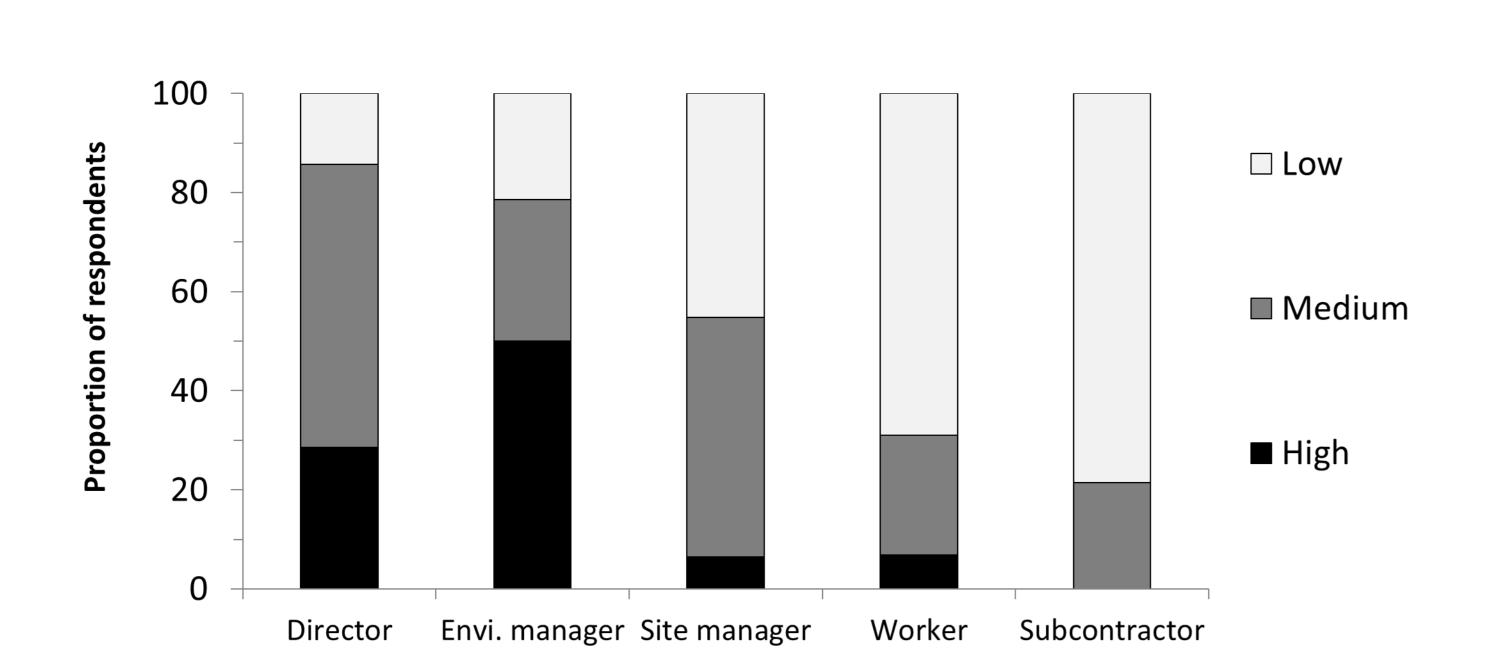
"In your opinion, what is the meaning of biodiversity?"

#### **ECOSYSTEM SERVICES UNDERSTANDING**

"In your opinion, besides raw materials production, what are the services supplied by the quarry among the following list?"



Level of knowledge on the term "biodiversity" among the different positions, based on the number of common notions between the definition of respondents and the official



# Take home message

Biodiversity being considered as an ecosystem service by the quarry sector, its management and development in quarries could allow increasing the well-being of sector's employees







