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Sorbus aucuparia L., 1753 Foto: Nils Valland CC BY

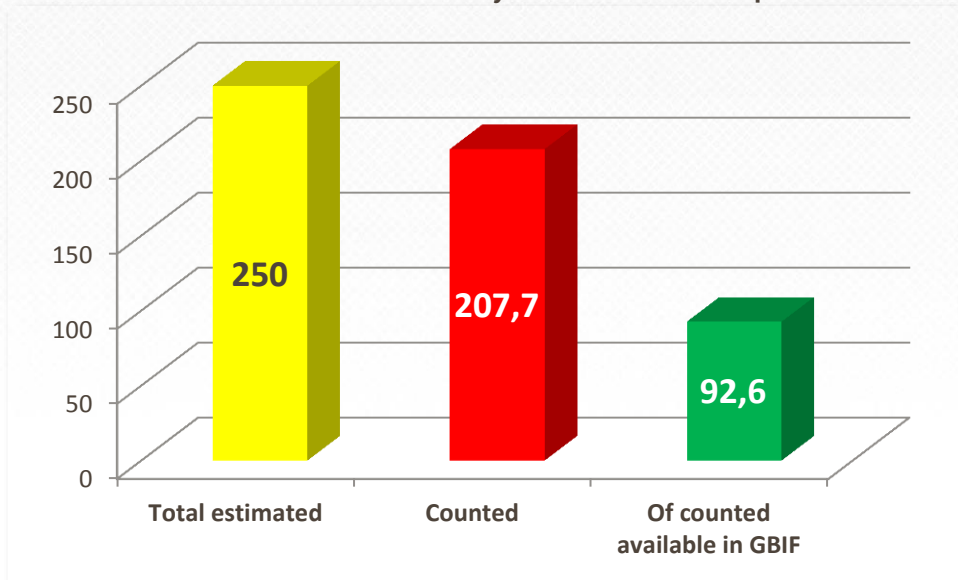
Citizen science and species occurrence data in Europe - key success factors

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CS and species occurrence in Europe

Mill. records species occurrence data from CS sources estimated, counted and freely available in Europe



- Conservative estimated 150 portals/systems/services, probably more
- Conservative estimated 210-250 mill. european records, probably more
- Counted 60 portals/systems/services containing data for Europe
- Counted 207,7 mill. European records
- 21 of these 60 contain > 1 mill. records
- 8 of the 60 contain > 10 mill. records
- Counted 92,5 mill. records from these 207,7 in GBIF

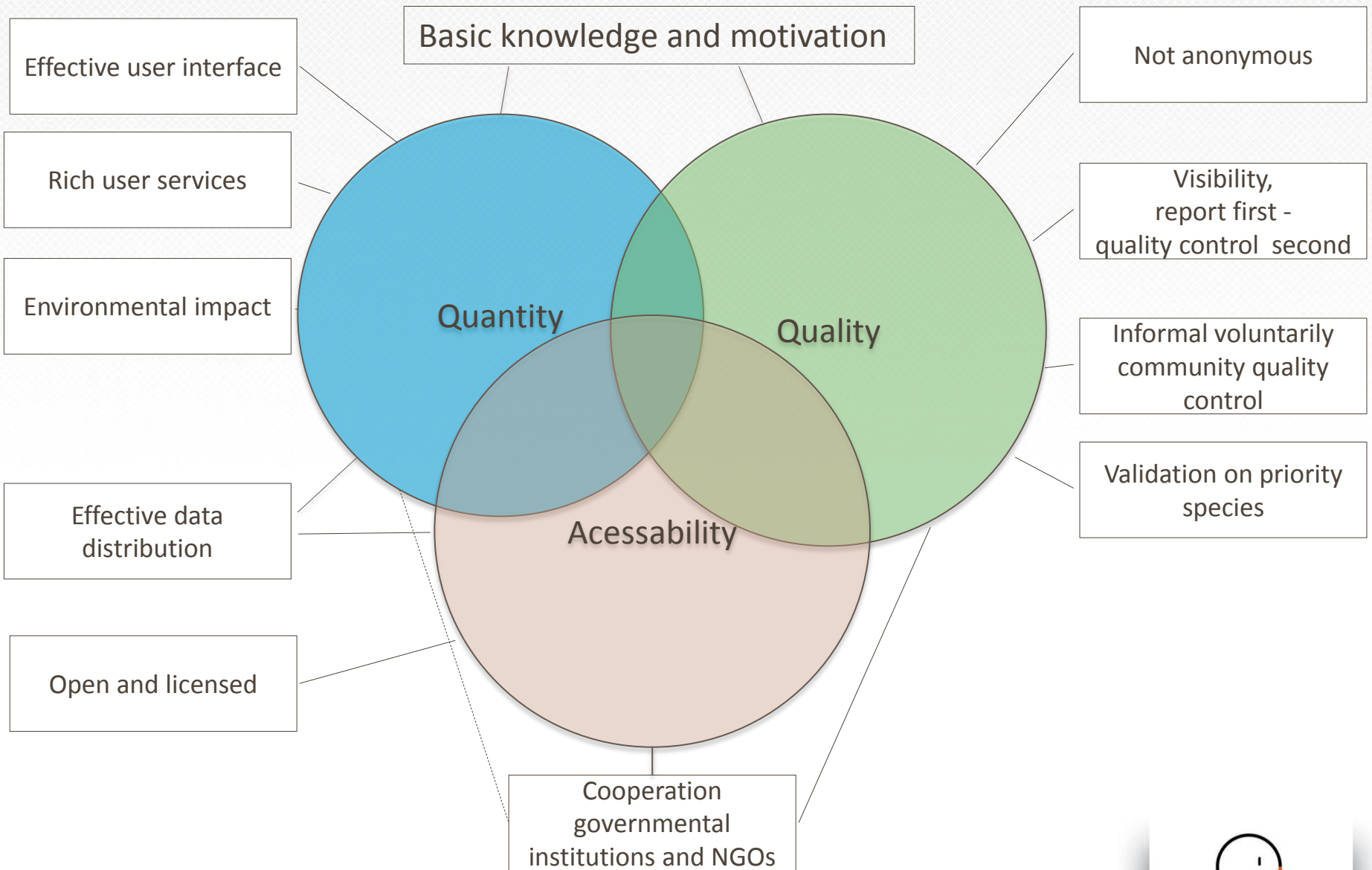


Key success factors

- Basic knowledge and motivation
- No anonymous sightings
- Report immediately – quality control afterwards
- Allow community members to contribute voluntarily in quality feedback and confirmation (crowd sourcing)
- Effective user interface for reporting sightings
- Mobile devices
- Rich services for the users (my sightings, statistics, my digital field diary)
- Organized second line validation on prioritized species
- Close cooperation between governmental service providers and national NGOs
- Sightings are free to use and licensed under CC BY 4.0. (except pictures), shared in GBIF
- Effective distribution through national species map portals together with data from scientific sources
- The sightings make a difference in spatial and environmental management

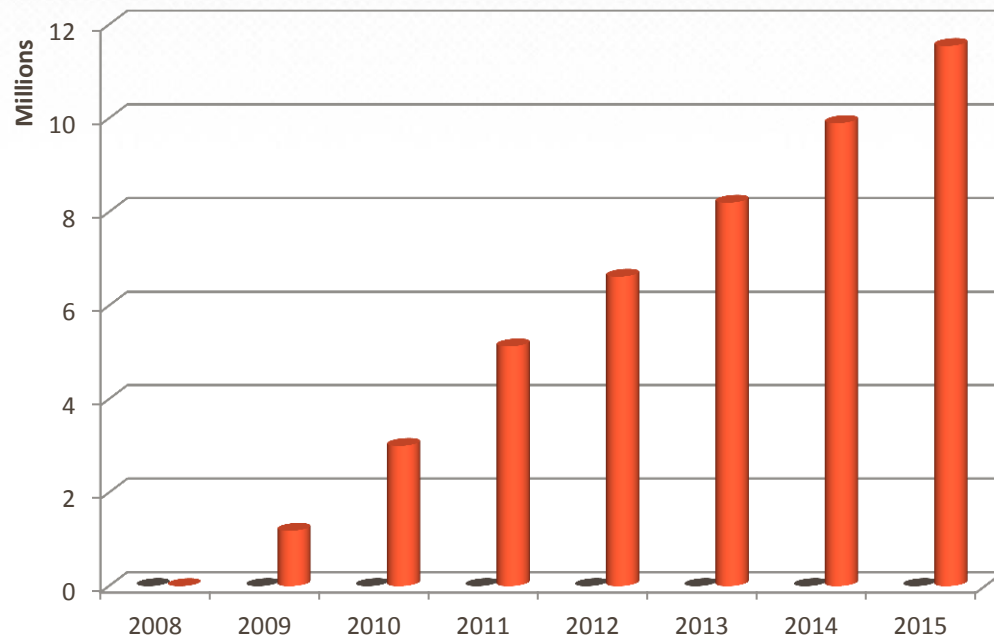


Key success factors



Species Observation System (Artsobservasjoner) - Citizen Science

- The largest species diversity mobilization in Norway, by amateur naturalists
- NBIC in cooperation with 5 Norwegian NGO's, 150 validators
- About 9 000 persons have so far contributed with 11,6 mill. observations in the course of 6 ½ years, more than 14 000 species are recorded



Number of sightings
per January 1st
from 2008 to present
date



Recommendations for EUBON



- Together with GBIF, approach and negotiate with current reluctant system owners to share data with open licences (CC BY 4.0)
 - Focus on the big ones who get public funding
 - Focus on countries/european regions with gaps in data availability



- Share efficient available portals/systems/services with institutions collaborating with naturalist NGOs under the prerequisite to share data with open licenses
 - Make a list of available systems
 - Focus on countries/european regions with data gaps and no/small CS systems



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**Thank you for your
attention!**