TrIAS

Publishing and analysing biodiversity data rapidly, repeatably and FAIR-ly for agile policy relevant results

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FAIR Data Principles

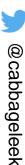
- Findable
- Accessible
- Interoperable
- Reusable



Wilkinson, M. D., Dumontier, M., Aalbersberg, I. J., Appleton, G., Axton, M., Baak, A., ... & Bouwman, J. (2016). The FAIR Guiding Principles for scientific data management and stewardship. *Scientific data*, 3.







Tracking Invasive Alien Species

The problem statement

Policymakers

- Managing invasive species is expensive
- We lack information for prioritization
- Information is communicated too slowly
- Much of the available data are irrelevant or unsuitable for policy needs
- "How do I know that these data are reliable?"
- If people want to support conservation why don't they share their data?

Citizens and their organizations

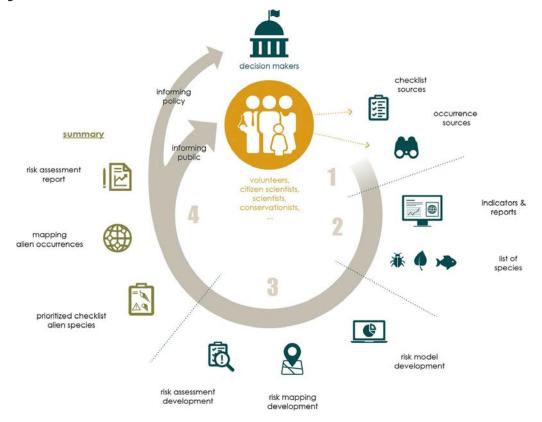
- Mobilizing data takes time and money
- Not interested in doing "real" work in my free time
- I want to manage my own data
- "You can have all my data, but I'm not going to digitize it myself"
- "If my data are valuable why won't you pay for it?"

"Suspicion is the cancer of friendship" Francesco Petrarch

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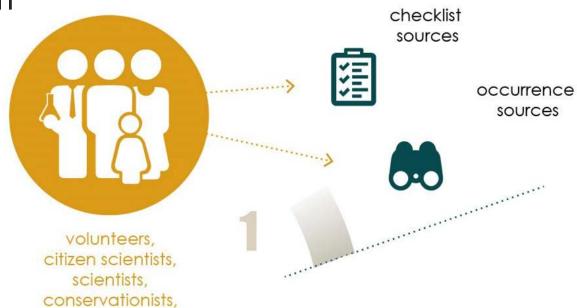
The TrIAS-ycle





1. Data publication

- Checklists
- Citizen science
- Specimens
- Others



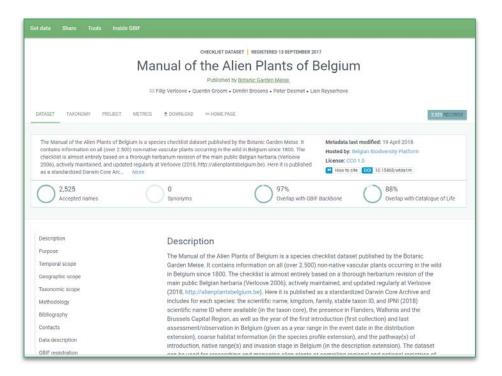




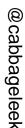
Reuse

- Publishing data openly to GBIF
 - Standards
 - o Taxonomic backbone
 - Publishing toolkit
 - Validation
 - Analysis tools
 - o Exposure
 - Aggregation
- GitHub
- Open Science Framework
- The R Project for Statistical Computing











2. Data products

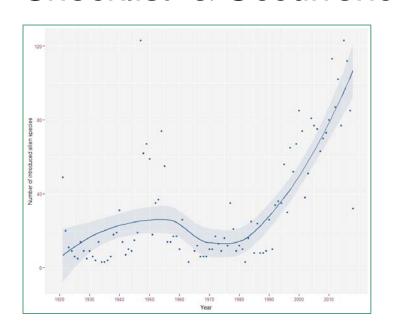
- A checklist of alien species
- Checklist indicators
- Occurrence indicators

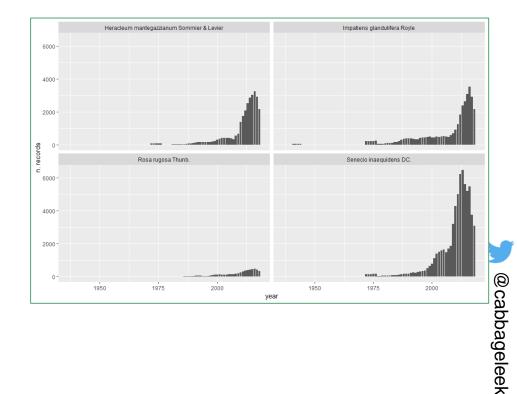




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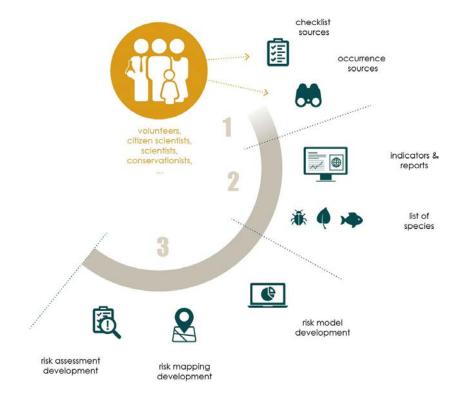
Checklist & Occurrence Indicators





3. Prediction

- Mapping
- Risk assessment
- Modelling scenarios
- Reports

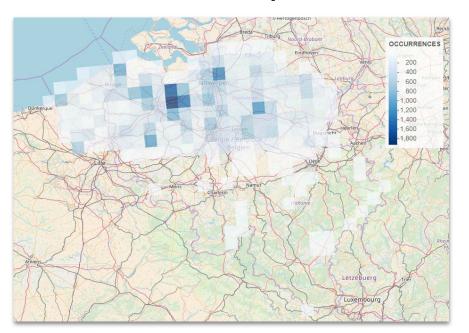


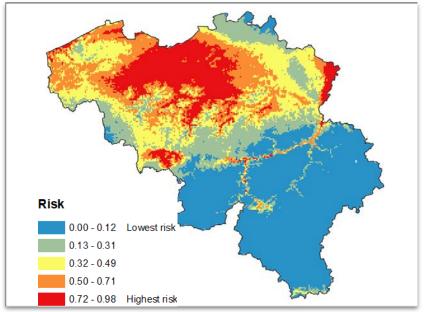




Tracking Invasive Alien Species

Distribution maps and models







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Risk assessment



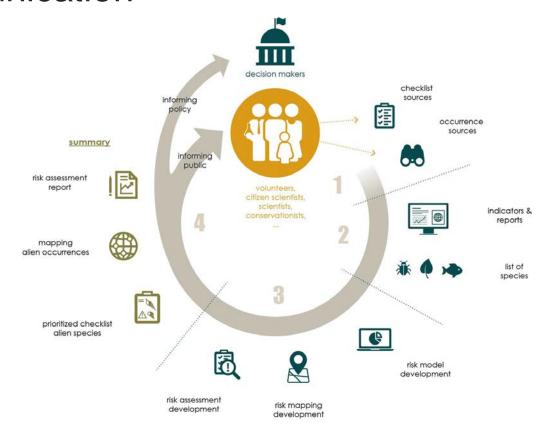






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4. Communication





TrIAS

Tracking Invasive Alien Species

Communication







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