



OSCARS

Open Science Clusters' Action
for Research & Society

Funded Project

SemantyFish: Advancing Visibility, Interoperability and Exploitability of FishBase

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Implemented by



FORTH



-quatics

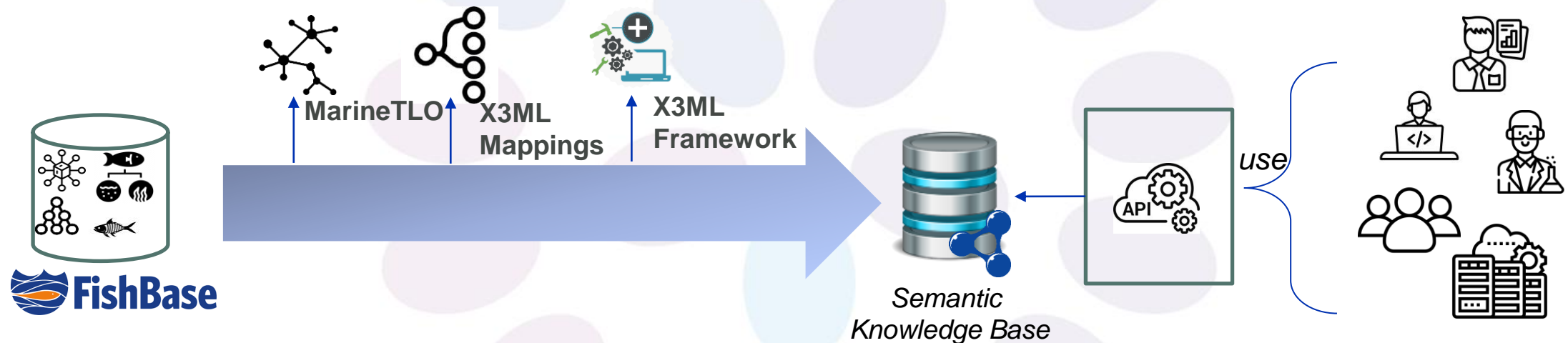


Funded by
the European Union



- Limited Data Interoperability
 - No semantic representation that makes data integration laborious
 - Fragmented Access
 - Information is primarily available via a human-centric website
 - Complex Querying limitations
 - Existing search methods do not allow for complex, semantically rich queries
 - Visibility and Reusability
 - FishBase data are not easily and effectively linked with external public resources
 - Need for Open Science
 - Lack of standardized, structured data
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- Convert FishBase into a Semantic Web Knowledge Base
- Enable SPARQL Query support (i.e. complex query answering)
- Develop a versatile, scalable and Interoperable API
- Continuous Evolution (KB and FishBase synchronization)



- Results



A fully interoperable Semantic Web Knowledge Base



Discovery and Access services
Through a dedicated API



Complex query answering
using relationship-based data



Links with external resources &
stronger integration

- Dissemination



EOSC Engagement –results
available through EOSC portal



Synergies with Research
Infrastructures & initiatives



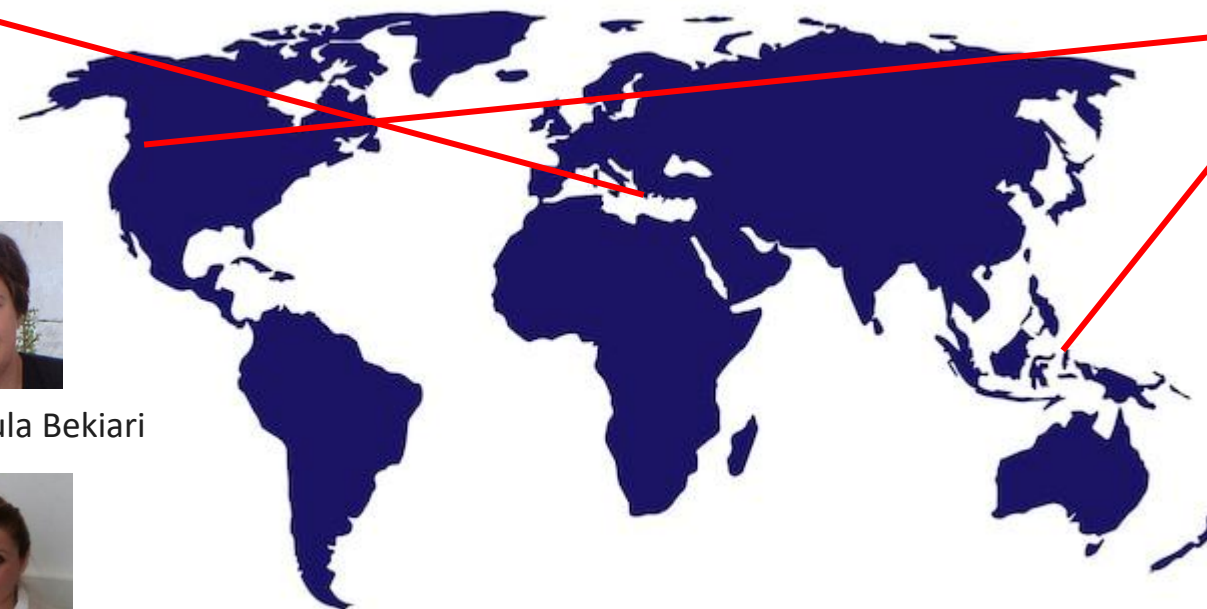
Publish research papers and
studies



Workshops and Hackathons

- Data Consistency & Synchronization
 - ✓ Implement an automated workflow that refreshes the KB with up-to-date data from FishBase
 - Technical Complexity & Scalability
 - ✓ Well-experienced team in: (a) semantic data integration, (b) API design and implementation
 - API Adoption
 - ✓ Provision of comprehensive documentation, user-friendly APIs and sessions to facilitate onboarding
 - Interoperability with RIs
 - ✓ Adopt widely accepted web standards to ensure compatibility. Work closely with RI stakeholders
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