



Introduction ELIXIR Beacon

ELIXIR All Hands 2018, Beacon workshop



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www.elixir-europe.org

Purpose of this meeting

- Share knowledge across ELIXIR
 - Review the current state and achievements (AAI integration, Beacon Network, Handoff)
 - GDPR and security considerations
- Encourage ELIXIR Nodes to light more Beacons
 - Hands on guidance how to light a Beacon



Agenda

- Agenda for the meeting:
- <https://docs.google.com/document/d/1MHhvuf5MSDeocyNeM8n82GOVUd2rGeDy7yiDsnaFDKg/edit>

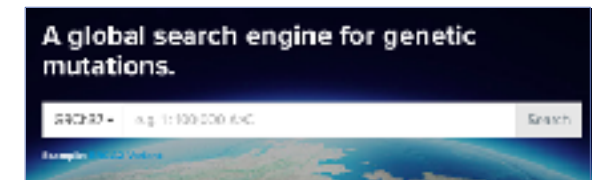


What is Beacon

- Beacon is a discovery service for genomic variants
- To make data discoverable without needing to apply access beforehand
- Aiding data sharing
- Increasing efficiency in data access process



Public data discovery web-service



Beacon adoption

25+

Organisations

60+

Beacons

200+

Datasets

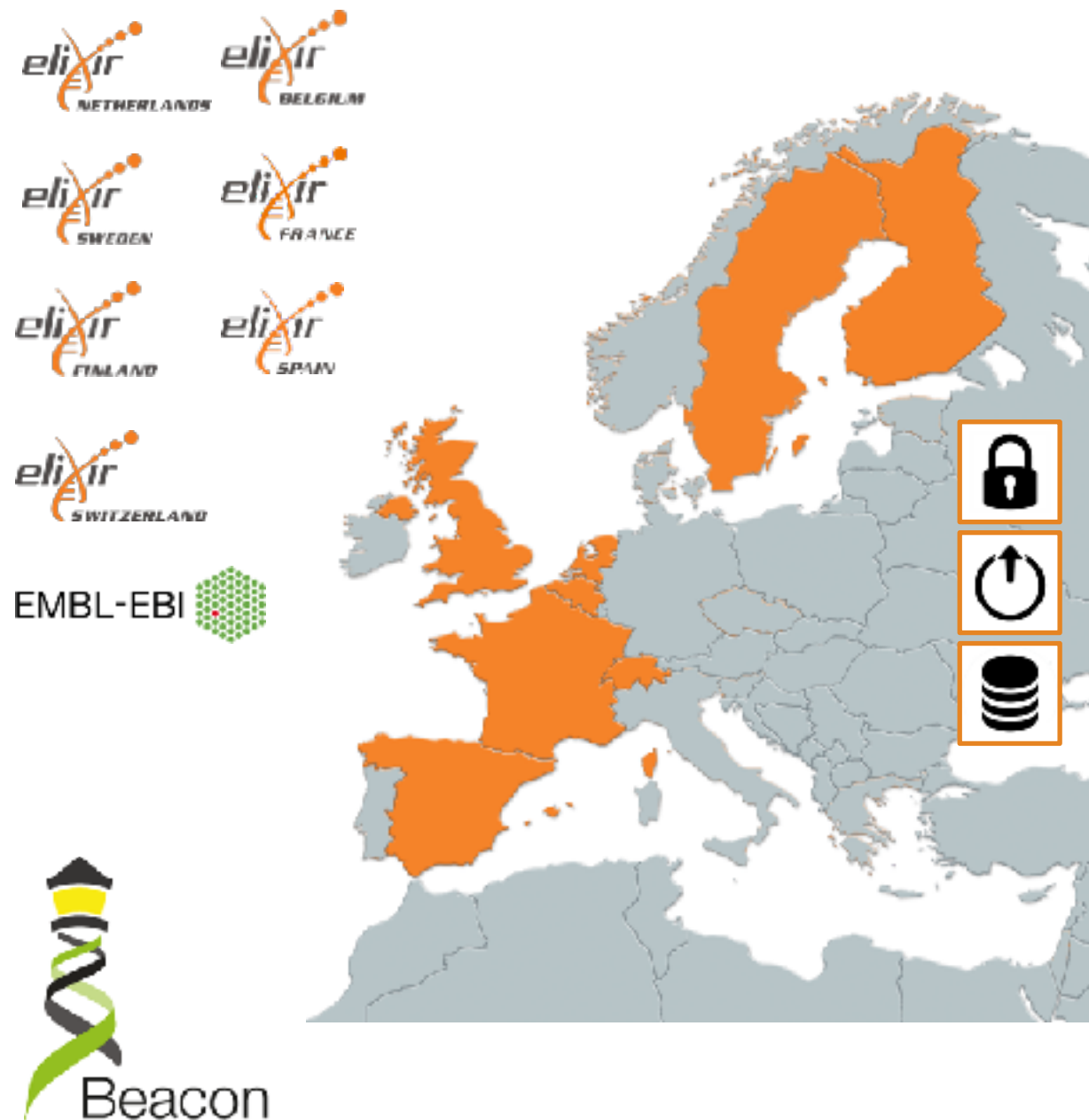
100K+

Individuals

Beacons are global

Each Beacon makes one or more genomics datasets
discoverable to the
international research community

ELIXIR and Beacons



- Funding to drive implementation of the Beacon technology within ELIXIR nodes
- ELIXIR Authentication and Authorization Infrastructure

Public	Accessible to internet users
Registered	Accessible to bona fide researchers
Controlled	Authorized – signed agreement needed



ELIXIR Beacon project 2018



More European data discoverable

New features:

- ELIXIR Beacon Network
- Extend the Beacon API

Development based on Technical Roadmap document



ELIXIR Beacon and GA4GH



Beacon is one of the GA4GH driver projects

- Objective is to create an official Beacon API specification
- Global effort, mostly volunteer input, wide range of technical expertise
- Aligned with GA4GH strategic roadmap



Developing standards and tools



Global Alliance
for Genomics & Health
Collaborate. Innovate. Accelerate.

Simplify the way people search for and
request access to potentially identifiable
international and national genomic
data resources



How ELIXIR Beacon is developed

- We have ELIXIR Beacon reference implementation developed by ELIXIR
- We follow Scrum framework *loosely*: we have **two-weeks sprints**, sprint **planning meeting** every second Tuesday as well as **sprint review meeting**
 - We do not have daily scrum meetings
- **Product backlog** in GitHub
- We track the progress using Kanban board in GitHub



Beacon

Repositories 6 People 13 Teams 2 Projects 1 Settings

Beacon

Updated 6 days ago

Filter cards + Add cards

8 Todo + ...

- Remove KeyValuePair
specification#168 opened by mcupak
type:bug
- Multiple examples under example
specification#165 opened by mcupak
type:bug
- Incorrect description for updateDateTime
specification#166 opened by mcupak
type:bug
- Missing description field in BeaconDataset
specification#175 opened by sdelatorrep
type:bug
- Duplicate documentation
specification#177 opened by mbsudis
- Datasets property should specify minimum number of items
specification#167 opened by mcupak
type:bug

4 In progress + ...

- Review v0.4 Spec
specification#178 opened by garysaunders
- Write Beacon .md file
specification#179 opened by garysaunders
- Create the Beacon Network API specification
discussion#2 opened by juhtornr
- Drive Beacon v0.4 API specification through GA4GH Product Approval process
2 of 6
specification#137 opened by susheel
theme:GA4GH-1.0 type:task

Automated as In progress Manage

0 Review + ...

7 Done + ...

- Update integration tests
beacon-elixir#7 opened by sdelatorrep
- Upgrade to OpenAPI v3.0
specification#121 opened by sdelatorrep
theme:DevEnv
- Update how to light a ELIXIR Beacon documentation
beacon-elixir#6 opened by mcupak
- Update test suite to OpenAPI
specification#103 opened by mcupak
theme:DevEnv
- Implement support for 0.4 specification
beacon-elixir#4 opened by juhtornr
- Cleanup beacon specification issues
specification#130 opened by susheel
- Update how to light a ELIXIR Beacon documentation

Automated as Done Manage