



ELIXIR-CONVERGE

frama.link/ifb-ag20-elixir-converge



ELIXIR-Converge has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 871075.

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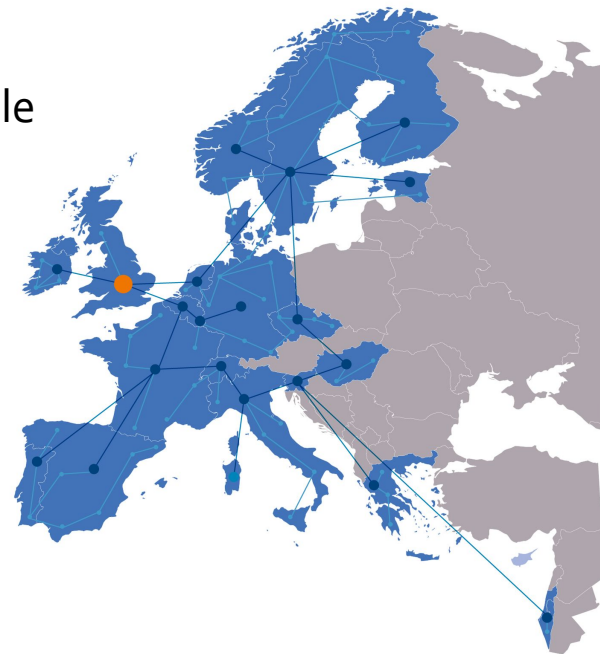
www.elixir-europe.org/converge

Introducing ELIXIR-CONVERGE

(INFRADEV-03-2019-2020 proposal accepted)

Aiming to connect and align ELIXIR Nodes to deliver sustainable FAIR life-science data management services

- All 23 ELIXIR Nodes involved
- 3 years funding (2020-2023), €5 million + COVID-19 uplift
 - Trans-national access to COVID host data
 - COVID 19 Data portal
- Started in February 2020



CONVERGE Goals

Une action coordonnée pour faire **converger** les programmes nationaux de plan de gestion des données

- Adapter les services des plates-formes d'ELIXIR aux besoins spécifiques des nœuds et leurs feuilles de route nationales
- Demander aux nœuds d'harmoniser leurs offres de services avec leurs partenaires nationaux et infrastructures de recherche
- Au niveau des nœuds, constituer des accords sur les normes de données, métadonnées et pour les pratiques d'archivage
- Un catalogue de services qui pourra s'adapter de manière flexible aux besoins nationaux et régionaux.

CONVERGE Method

People:

a Europe-wide network of life science data management professionals

Skills:

A comprehensive training programme delivered throughout the European Research Area

Shared toolkit:

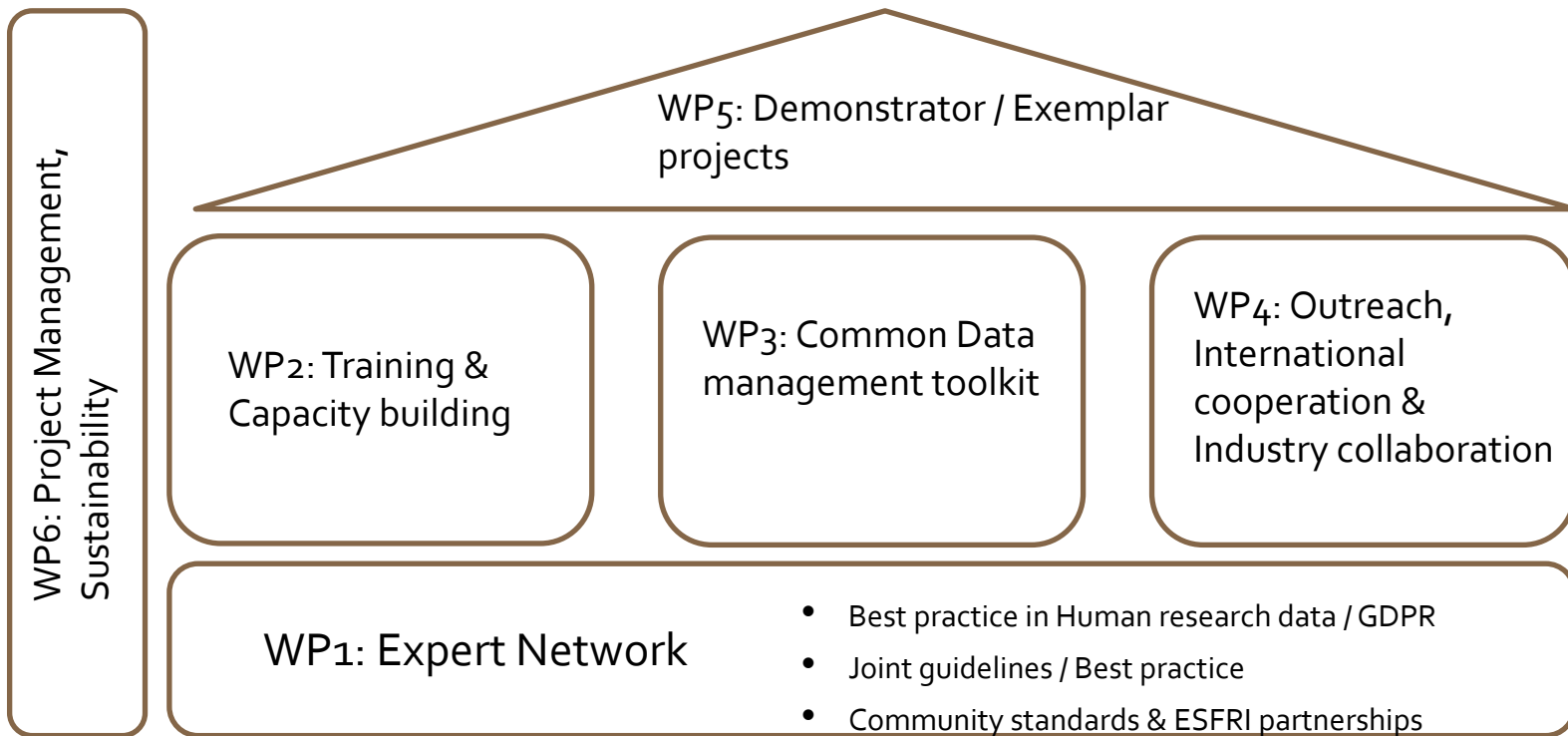
Alignment via sustainable, scalable and cost-effective data management toolkit

Demonstrators:

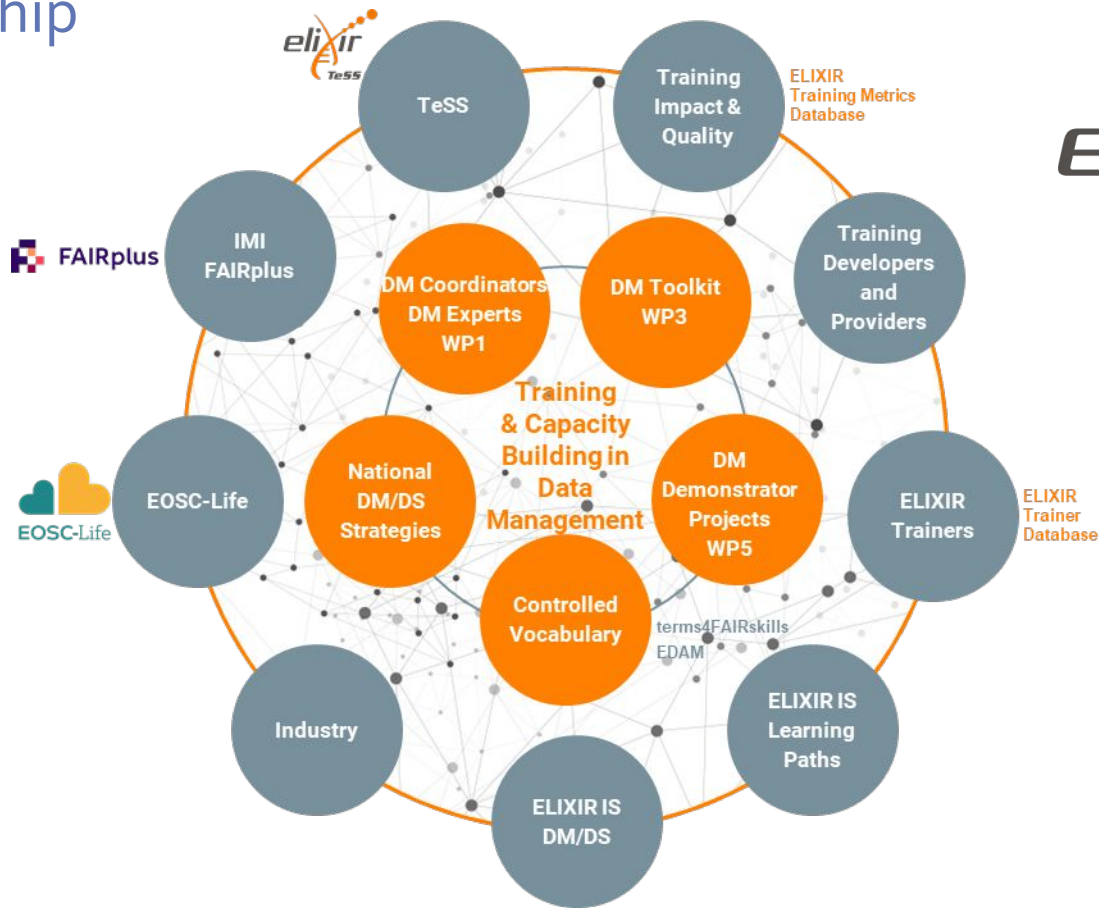
Devise DMPs for certain domains outlining needs of RDM in that domain. Devise KPIs to monitor DMP implementation..

Work package structure

"aligned national life-science data management programmes and bioinformatic infrastructure across ELIXIR to ensure that all of Europe's life-science have access to advanced, scalable and sustainable infrastructure for data management"



Training & Capacity Building in Data Management and Data Stewardship



CONVERGE Toolkit: rdm.elixir-europe.org



Research Data Management Toolkit [Edit me](#)

Note: We're still developing this website. If you want to see what's coming up next, have a look at the pull requests and issues on [GitHub](#). Feel free to [contribute](#)!

Find resources by clicking on the RDM data lifecycle



Or find resources by:

Your role

Your domain

Examples

Your problem

A portal to guide users (data stewards) in tackling common RDM problems

Guidelines that outline problems and solutions, list tools and resources that are used within solution

Still a work in progress : first prototype for 2021.

Demonstrators

1. Harmonised FAIR plant genotype & phenotype data management toolkit for Europe (1st wave; FR, DE, IT, PT, UK).

Data types & Challenge: phenotyping data (tabular text, ISA-tab), genotyping data (SNP genotyping matrices in VCF either from genotyping arrays or GBS experiments, SSR type identification markers), includes data with restricted access

Key Deposition databases, standards and Interoperability resources: ENA, EVA, BioSamples, ISA-toolkit, MIAPPE, BrAPI, CropOntology

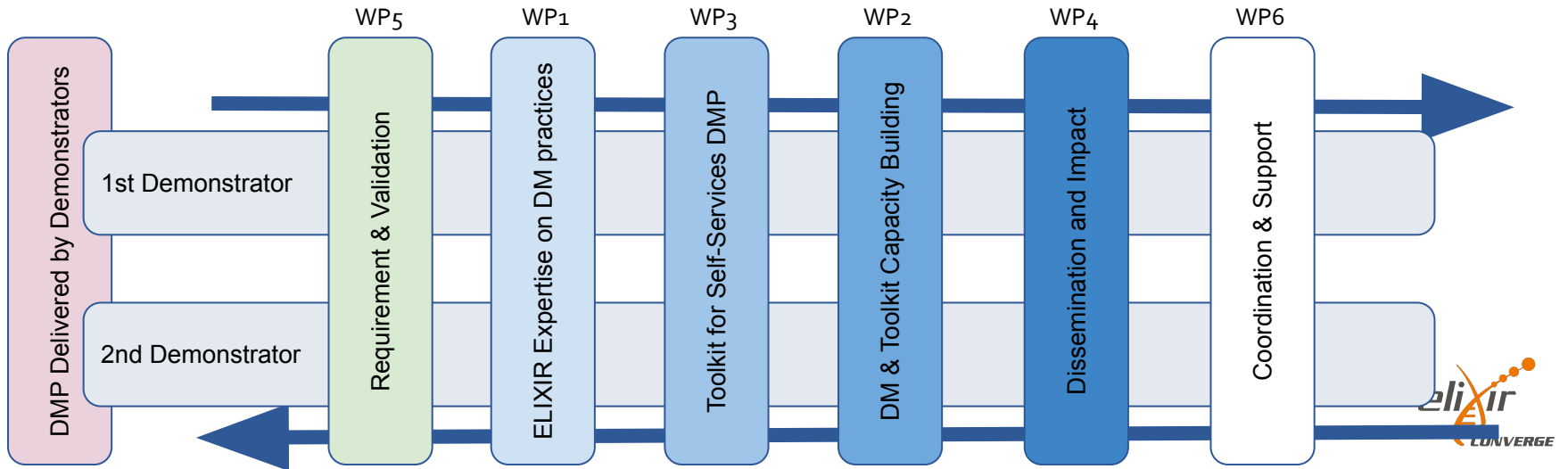
2. Reproducible, comparable and FAIR Epitranscriptomics (1st wave; IE, IS, IT, NO).

Data types & Challenge: Available high-throughput sequencing data sets: e.g. deep RNA-seq of 25k samples; , deep RNA-seq (MeRIP, miCLIP, ...) and Ribo-seq of 2.3k samples.

Key Deposition databases, standards and Interoperability resources: Harmonised/benchmarked workflows , MIAME, BioSamples

Proposal: Cross-WP teams to support 1st Wave Demonstrators project, selected people from each WP to join each of the teams.

ELIXIR-CONVERGE. Cross-WP Teams to support Demonstrators (Kick-off Discussion)



Selected Highlights (ELIXIR French Node)

- WP₁ – Data Management Network:
 - For the DM Expert Network: include training expertise in the expert profiles and integration with the RDM Toolkit
- WP₂: Training & Capacity building:
[ELIXIR-FR with ELIXIR-LU organized the first Best practices in research data management and stewardship Training](#)
- WP₃ – [Data Management Toolkit](#)
 - Participated in July 2020 hackathon and November 2020 contentathons!!
- WP₄ – Outreach : Deliver DM/DS course in one or more of the upcoming/new countries in ELIXIR and KPI's
- WP₅ – Lead Demonstrator Projects: Plant use case
- WP₆ – T6.4 Excellence in Management : Towards curriculum for Node Coordinators

Some Work in Progress:

- Standardized vocabulary

- Biohackathon 2020:
 - Discussion with EDAM group about adding this to EDAM
 - This will be taken further in CONVERGE, together with WP3
 - Slack channel #edam-for-datamanagement
- [Terms4FAIRskills](#) could play a role: A community-driven terminology to map the skills required to make and keep data FAIR
 - ELIXIR Training is one of the use cases



Thank you



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