## Group of Senior Officials Framework for Global Research Infrastructures and how ELIXIR aligns

www.elixir-europe.org

its governance structure, along with role IR has been a legal entity since Decembe Consortium Agreement and in other prac ture, thereby enhancing the value of nation tical documentation held by the ELIXI Hub. Any country in the world can apply the ELIXIR Board to become a Member for scientists anywhere on the globe to find









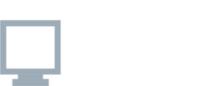














iat) with the national Node in each Member

ountry. This allows the ELIXIR Hub to run

ommissioned Services across its Member

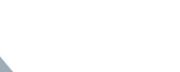
support of implementing ELIXIR's work











**ELIXIR** partners, including the Comm

ations. As Membership in ELIXIR is stable.









plovees of the Hub are collaborativ

a Joint Masters in Research Infrastructure

management through the RITrain project.

ined with their respective line manag

























advisory boards. The activities that connect

these services in the Nodes are regularly

reviewed by the ELIXIR Scientific Adviso

ically thereafter. This ensures that ELIXIR

well as research infrastructure operation

In terms of external funding, all grants such

as those under European Union's Horizor

2020 Programme, require periodic and fi-

nal reviews by external evaluators. Finally,

ELIXIR's accounts are monitored internally

as part of the bi-weekly management team

meetings, with corrective actions taken as

necessary. Accounts are also externally au

dited and presented to the ELIXIR Board for

within the scope of ELIXIR. The upcoming









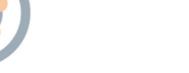




ELIXIR's portfolio of technical activitie

generally, ELIXIR will continue to





ess of their location or sector, and via

resources can be accessed at on a dedicated

page of the web site. Notable exceptions to

the open access approach include "access"

data for which a Data Access Committee re-

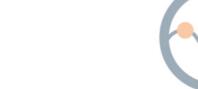
to cloud facilities where users may need to

ubmit a proposal to access the computing

views the proposed experiment, or access

controlled" databases of sensitive human



































their data management needs by providing

sultancy, along with running a number of

advice, hands-on support, training and con-

services related to data management. For in-

stance, ELIXIR has compiled a list of resourc

ance from the European Research Council. In

terms of interoperability, ELIXIR helps users

and machines to discover, access, integrate

and analyse biological data, by encouraging

the life science community to adopt stand-

ardised file formats, metadata, vocabularies

ons from the Research Data Alliance and

and identifiers, in line with recommenda

other international initiatives. Additiona

ples on FAIR Data Management to help

esearchers to make published life-science

Reusable. Finally, a dedicated working grou

on data management, to promote exchange

of best practice across ELIXIR Nodes, is also

lata Findable. Accessible, Interoperable and

es that it recommends for the deposition of

xperimental data: the ELIXIR Deposition

Databases: this list is referenced in guid-





cluster should be actively encouraged









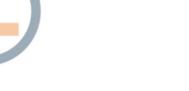














































es derived from them. These infrastructure are critical to bioinformatics research and its many applications in the fields of health e.g. personalised medicine), food securit e.g. aquaculture) and the environment (e.g. llution remediation), which are of signifi cant societal and economic benefits. Impac ssessment, particularly socio-economic im pact, is an emerging and developing area of work across ELIXIR. One of the most active ELIXIR members in this area of work is the **European Institute for Bioinformatics (EBI)** based in the UK, and part of the European Molecular Biology Laboratory (EMBL). In 2016. UK-based consultancy Charles Beagrie Ltd published an in-depth analysis of the value and impact of EMBL-EBI, with the report valuing the benefits to users and their funders at £1 billion per annum worldwide uivalent to more than 20 times the direct erational cost of the institute. Further to this, the RI-PATHs project ("Research Infrastructure imPact Assessment paTHways") funded by the European Union under the Horizon 2020 aims to develop a common ethodology for assessing the socio-ecoomic impact of research infrastructures with ELIXIR as one of several case studie ot restricted to life sciences. Finally, the **ELIXIR** Hub has been actively informing

the work of the Organisation for Econom

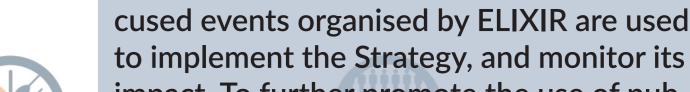
ic Co-operation and Development (OECD)

in the context of their efforts to develop:

search infrastructures, to assess their so-

Research infrastructures underpin access to life science data and the various servic-

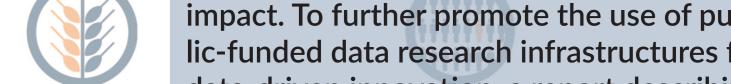
age of ELIXIR resources, as well as fosterledium-sized Enterprises (SMEs). Severa



tters, online surveys, and industr

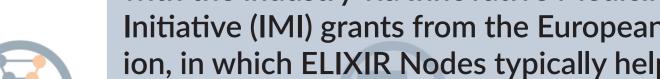
able to all ELIXIR has also established

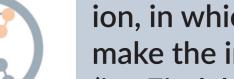




















exchange of best practices in bioinformat

bers of ELIXIR, hence only countries that

2019, there will be two calls per year, and

Union Horizon 2020 funding scheme for i

to exchange staff with international pa















