# West-Life Deliverable D2.3

<table>
<thead>
<tr>
<th>Project Title:</th>
<th>World-wide E-infrastructure for structural biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Acronym:</td>
<td>West-Life</td>
</tr>
<tr>
<td>Grant agreement no.:</td>
<td>675858</td>
</tr>
<tr>
<td>Deliverable title:</td>
<td>Summary report of SB community engagement</td>
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<tr>
<td>WP No.</td>
<td>2</td>
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<tr>
<td>Lead Beneficiary:</td>
<td>7 - Instruct</td>
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<tr>
<td>WP Title</td>
<td>Dissemination, Training, and Outreach</td>
</tr>
<tr>
<td>Contractual delivery date:</td>
<td>30-April-2017</td>
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<tr>
<td>Actual delivery date:</td>
<td>30-April-2017</td>
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<tr>
<td>WP leader:</td>
<td>Instruct</td>
</tr>
<tr>
<td>Contributing partners:</td>
<td>STFC, NKI AVL, EMBL, MU, CSIC, CIRMMP, UU, INFN</td>
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*Deliverable written by Narayanan Krishnan*
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1 Executive summary

West-Life VRE provides a platform offering variety of services and information on the services. Having an overview of experiments performed through an operational pipeline accessing different facilities in sequence would be extremely beneficial for the already well-informed community. This can be further publicised by West-Life presence at structural biology conferences, workshops and meetings. Flyers, presentations and posters at external meetings have already been made and will be continued. Through engagement channels like mailing lists identified by the workpackage, more than 5000 stakeholders from the structural biology community were contacted for information gathering exercised like surveys. The project website has news items that is updated with the latest structural biology happenings and is linked to the Structural Biology Research Infrastructure (Instruct). The project website also has an overview of the latest events in the community thus promoting collaboration and further engagement.

2 Project objectives

With this deliverable, the project has reached or the deliverable has contributed to the following objectives:

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<thead>
<tr>
<th>No.</th>
<th>Objective</th>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>1</td>
<td>Provide analysis solutions for the different Structural Biology approaches</td>
<td></td>
<td>N</td>
</tr>
<tr>
<td>2</td>
<td>Provide automated pipelines to handle multi-technique datasets in an integrative manner</td>
<td></td>
<td>N</td>
</tr>
<tr>
<td>3</td>
<td>Provide integrated data management for single and multi-technique projects, based on existing e-infrastructure</td>
<td></td>
<td>N</td>
</tr>
<tr>
<td>4</td>
<td>Foster best practices, collaboration and training of end users</td>
<td>Y</td>
<td></td>
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West-Life Deliverable D2.3
3 Detailed report on the deliverable

3.1 Background

A key part of delivering services to community at large is to promote the understanding and importance of structural biology by providing information on the value of the research being supported, the resources underpinning the service and to share knowledge and experiences arising from the project with a broader stakeholder community. Information on the services and their uses need to be disseminated to the well versed structural biology community through West-Life presence at various scientific conferences and meetings. The project website continues to be a major platform for providing updates on project delivery, training and scientific events and structural biology community news.

3.2 Engagement activities with Structural Biology community

3.2.1 Identification of structural biology user community and methods of engaging with them

As part of the work package 2 and 5, work was undertaken to identify and quantify users of structural biology community and users of tools and services provided through West-Life. Deliverable D5.2 Overview (baseline) of services and portals reported the total number of >16000 users for the portals providing access to services, who could be identified as the primary user community for West-Life. Some of the portals by West-Life partners, however, do not require authentication of users and thus are unable to accurately contribute to the above statistic, making the community of users a large number of scientists across the globe.

After identifying the user communities, it was important to find a way of communicating and engaging with these users. Milestone M2.2 Engagement Plan, recognised and reported different mailing lists within each partner of West-Life. These continue to provide an effective channel of engagement and was used to send survey for Workpackage 3. The survey was sent among communities for their use of structural biology data and tools/services, identifying gaps in data standards and software availability for broader usage of SB data. The survey is still open and is available at: [https://goo.gl/forms/8Hkf7jtoendn3EWf2](https://goo.gl/forms/8Hkf7jtoendn3EWf2). The survey will close and results analysed before the West-Life Roundtable meeting (Deliverable D3.2 Organisation of a round table or joint meeting
involving ESFRIs), to be held at Brno on 24th May, 2017. The information gathered through the survey would feed into the strategic foresight of West-Life VRE and towards discussion with the biomedical ESFRIs at the roundtable mentioned above. Also, these will further be incorporated into deliverable D3.3 Report on requirements by other Research Infrastructures.

3.2.2 Presence at conferences and workshops

A recent CORBEL MIUF survey identified that the best means of dissemination and communication of Research Infrastructure information is via participation at scientific conferences and publication in the scientific literature1. As an eInfrastructure project, West-Life will also benefit from continued presence at conferences and workshops for better dissemination of information about the project and the VRE. Partners of West-Life presented 5 posters at different conferences and cited West-Life at 53 lectures at conferences worldwide (Appendix 3). West-Life was also acknowledged in more than 3 published journal articles. West-Life was also represented through presence at different events with a list of future events (Appendix 2) documented part of the engagement plan available in the internal wiki: http://internal-wiki.west-life.eu/w/index.php?title=Engagement_Plan. Project partners are continually encouraged to use West-Life branded templates for presentations and posters, use West-Life logos, namecheck other partners and distribute business cards when attending networking events.

3.2.3 Website and social media

Keeping the website current with up-to-date information and dynamic content is imperative for engaging with user communities. The West-Life website (https://west-life.eu/) pulls the news and events content from Instruct (https://www.structuralbiology.eu/), thus disseminating important structural biology information to West-Life users. The website also has Twitter widget engaging with different user communities, partners and collaborators. The @WestLifeSB twitter account has 102 followers and has 440 tweets engaging with policy makers, partners, collaborators and users, averaging excess of 100 profile views per month. Owing to the emergence of Twitter as a support platform, with specific instance of such support request in West-Life, the website also encourages users to contact West-Life using the twitter handle. Webinars and lecture, collected by WeNMR project, on the tools and services available to the users through West-Life are uploaded to the WeNMR YouTube Channel. More lectures from workshops will be added to this channel for further dissemination.
The West-Life website has also been improved with the facility of a forum facility for immediate support of user communities. While the tools and services provided through West-Life have their own established portals and support mechanisms, the forums and associated support pages in West-Life website will direct users to the correct help centre.

3.2.3 Flyer and promotional material

Workpackage 2 produced West-Life flyer after consultation with partners and it is made available for everyone in the project to circulate among collaborators and at events. The flyer contents and the design were revisited through consultation with new user communities including public engagement expert, to make sure that the message and the text remain relevant to not just structural biology community but to a wider audience. The flyer is attached in Appendix 1.
References cited

1. CORBEL MIUF Survey: Conducted by Work Package 3 of CORBEL Project No. 654248
Appendix 1: West-Life Flyer

West-Life is a Horizon 2020 Virtual Research Environment project (EINFRA No 675858) with 10 partners from 7 EU countries.

-[Participant List]

STFC, United Kingdom
NKI AVL, Netherlands
EMBL, Germany
Masarykova university, Czech Republic
CSIC, Spain
CIRMMT, Italy
Instruct, United Kingdom
Universiteit Utrecht, Netherlands
LUNA, France
INFN, Italy

- West-Life allows structural biology researchers access to techniques and tools that are obtained from the life science research community. The project is supported by the European Union’s Horizon 2020 research and innovation programme under grant agreement No 675858.

View all your data in a single, coherent place
West-Life is your portal to processing data in the cloud
Connect your processing together with a single portal

Visit: west-life.eu
Tweet: @WestLifeSB

West-Life pilots an e-infrastructure for providing data services and tools for structural biology

West-Life is a Virtual Research Environment (VRE) through which users from the life science research community can access services and tools that will advance their research in the area of structural biology.

- Support for experimental techniques and access to generic data services developed by EUDAT and EGI
- Integrate existing data management services and develop new ones
- Building on strong foundations setup by WeNMR and European structural biology community under the umbrella of Instruct
- Integrated approaches to Bio Medical Sciences made more accessible

Integrate data management facilities
Integrate computational tools

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## Appendix 2: Future events

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Date</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEBS Combined Practical and Lecture Course Chemistry of Metals in Biological Systems</td>
<td>Belgium</td>
<td>May 5 2017</td>
<td>New Communities</td>
</tr>
<tr>
<td>Instruct Biennial Structural Biology Meeting 2017</td>
<td>Brno, Czech Republic</td>
<td>May 21-24 2017</td>
<td>Structural Biology Community</td>
</tr>
<tr>
<td>iNEXT All Hands Meet</td>
<td>Brno, Czech Republic</td>
<td>May 21 2017</td>
<td>Structural Biology Community</td>
</tr>
<tr>
<td>GRC Computational Aspects of Biomolecular NMR</td>
<td>Sunday River ME, USA</td>
<td>June 11-16, 2017</td>
<td>Industry and new communities</td>
</tr>
<tr>
<td>Event</td>
<td>Location</td>
<td>Date</td>
<td>Community</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------</td>
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<td>------------------------------------------------</td>
</tr>
<tr>
<td>CCP4/APS School in Macromolecular Crystallography</td>
<td>Argonne, USA</td>
<td>June 2017</td>
<td>Industry and Structural Biology Community</td>
</tr>
<tr>
<td>Biophysical Society Thematic Meeting</td>
<td>Berlin, Germany</td>
<td>August 25-29 2017</td>
<td>Structural Biology Community</td>
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<tr>
<td>PDBe API - search and entry API Workshop</td>
<td></td>
<td></td>
<td>Structural Biology Community</td>
</tr>
<tr>
<td>Drug Discovery 2017</td>
<td></td>
<td>2017</td>
<td>Industry and New communities</td>
</tr>
<tr>
<td>iNEXT training course Bridging solution methods: from NMR to X-ray scattering and biophysics</td>
<td>Patras, Greece</td>
<td>2017</td>
<td>Structural Biology Community and New Communities</td>
</tr>
</tbody>
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Appendix 3: List of presentations by West-Life partners at various events

Lecture by Robbie Joosten. "How good is my model? And can it be improved?", Computational Biotechnology at the Nanoscale, Faridabad, India, February 15-20, 2016.


Lecture by Alexandre Bonvin. “Sense and simplicity in HADDOCK scoring: Lessons from CAPRI”. CAPRI meeting, Tel Aviv, April 17-20, 2016.


Lecture by Alexandre Bonvin. EMBO practical course on “Integrative modelling of biomolecular complexes”, Barcelona, Spain, July 4-9, 2016.

Lecture by Alexandre Bonvin. EMBO practical course on “Multidimensional NMR in Structural Biology”, Joachimsthal, Germany, July 11-15, 2016.


Lecture by Marco Verlato at the DI4R conference, Krakow, Sept. 2016, Federated accelerated computing platforms for EGI


Lecture by Alexandre Bonvin, "West-Life: Structural biology in the clouds". iNext user meeting, Alcala de Henares, Spain, October 19-21, 2016.

Lecture by Robbie Joosten, “PDB_REDO: What's (i)NEXT?”. iNext user meeting, Alcala de Henares, Spain, October 19-21, 2016.

Lecture by Alexandre Bonvin. “High-resolution, integrative modelling of biomolecular complexes from fuzzy data”, Helmholtz Training Course on Integrative Structural Biology, Braunschweig, Germany, November 7-11, 2016.


Lecture by Jose Maria Carazo. “Soft validation in cryo EM”, Weizmann Center, Tel Aviv, Israel, March 2016.


Lecture by Jose Maria Carazo. “The EM RESOLUTION REVOLUTION”, Universidade de São Paulo, Sao Paulo, Brazil, July 2016.


Lecture by Lucia Banci. “Cellular Structural Biology: from structures to functional processes”, 42nd Conference on "In the Vanguard of Structural Biology: Revolutionizing Life Sciences", 4-7 October 2016, Naito, Japan.


Lecture by Lucia Banci. “NMR in Cellular Structural Biology: combining atomic resolution with the cellular context” British Biophysical Society, Biennial Meeting, 6-8 July 2016, Liverpool, UK.


Lecture by Lucia Banci. “What we learn from motions of the biomolecules?”, 14th International School of Biological Magnetic Resonance, 7-17 May 2016, Erice, Italy.

Lecture by Lucia Banci. “NMR in Cellular Structural Biology and few cool ways to do NMR” Scientific Symposium: 50 Cool Ways to Do NMR, 11 April 2016, Frankfurt, Germany.

Lecture by Martyn Winn. "What to do with all that Data" at “Advanced Data Collection for High Resolution cryoEM: How to make the most of your National Facility Visit”, Biochemical Society Training Day, Diamond National EM Facility (eBIC), 6 September 2016.


Lecture by Alexandre Bonvin. High-resolution integrative modelling of biomolecular complexes from fuzzy data. ISGC 2017, Taiwan.

Lecture by Alexandre Bonvin. The DisVis and PowerFit web servers: Explorative and Integrative Modeling of Biomolecular Complexes harvesting EGI GPGPU resources. ISGC 2017, Taiwan (https://indico.twgrid.org/indico/event/2/session/30/contribution/4).


Lecture by Jose Maria Carazo. Image Processing in cryoEM: Open problems and current perspectives. ISGC 2017, Taiwan.


Lecture by Antonio Rosato. Molecular dynamics of proteins in the cloud. ISCG 2017, Taiwan.
Lecture by Marco Verlato. EGI federated platforms supporting accelerated computing. ISCG 2017, Taiwan. (https://indico4.twgrid.org/indico/event/2/session/47/contribution/6)

Lecture by Jose Maria Carazo. Image processing in cryoEM: Validation. Max F. Perutz Laboratories. Dept. of Structural and Computational Biology, University of Vienna, 16 March 2017