Open Life Science

openlifesci.org

Twitter & GitHub
@openlifesci

Shared Notes: **bit.ly/tps-ols2**

Open Life Science founders

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Open Life Science

Science can advance only when every researcher shares their work with others

A 2012 study of 160 tech companies found that the **level of strategic intent in openness**, not openness alone, correlates with effective **market performance**.

Cultural change towards Open Science require

1. Leadership, vision, strategy
2. Targeted measures
3. Transparency, accountability
4. Trust and confidence in a shared vision

The **Open Life Science** program helps researchers and stakeholders working in research fields in becoming **Open Science ambassadors**.

Together, we explore the important concepts and practices in Open Science and apply them in our work - one step at a time.

Different roles of Open Science communities

- *Storing* Data (Open Data)

- *Developing* source code (Open Source Software)

- *Designing* hardware (Open Source Hardware)

- *Sharing* methods or protocols (Open Access)

- *Communicating* results early (Preprints)

- *Reviewing* papers (Open Reviews)

- *Transferring* skills by training (Open Education)

- *Collaborating* with public (Citizen Science)

- *Supporting* and connecting others in your field (Scientific Network)

- *Welcoming* contributors and maintainers (Community Building)

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Open by Design

Openness should not be a thoughtless default

With the OLS mentoring and training, you will **lead** your projects openly, **share** your work effectively, and **bring a culture change** in your communities.

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Program structure

15-week long mentorship and cohort-based training
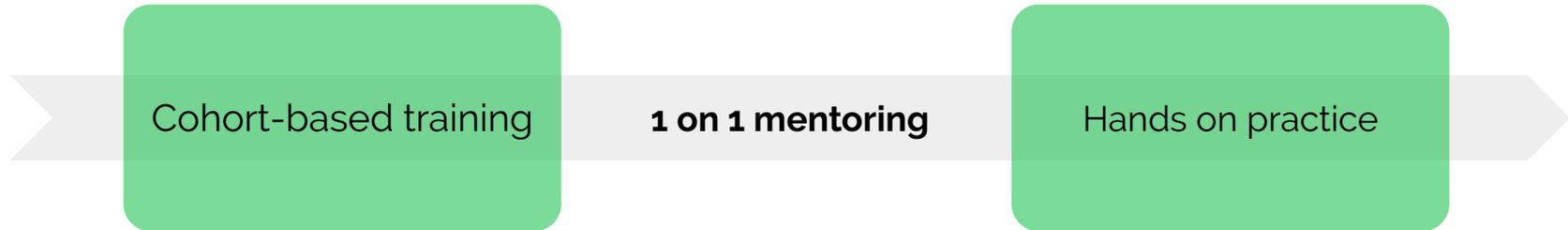
| Cohort-based training | **1 on 1 mentoring** | Hands on practice |

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OLS-2 for Turing

The Turing Way has collaborated with OLS to involve **interested mentees and mentors** in Turing

Email: msharan@turing.ac.uk, Gitter: gitter.im/alan-turing-institute/the-turing-way

Tools, Practices and Systems

- Trustworthy systems

- Transparent reporting

- Inclusive interoperable design

- Ethical integrity

- Respectful co-creation

- **Leadership in open research**

Trust

Transparency

Inclusivity

Integrity

Respect

Leadership

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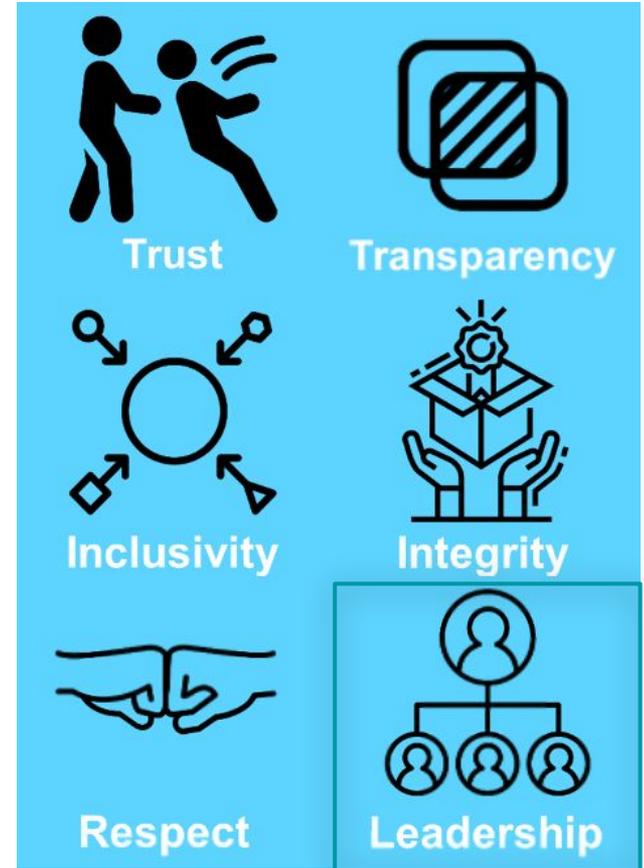
The Turing Way

An **Open Source project** that involves and supports its members of **diverse skills and backgrounds** to ensure that **data science is accessible** and useful for everyone.

The Turing Way

It's about the journey to reproducibility.

Welcome

The Turing Way is an open source community-driven guide to reproducible, ethical, inclusive and collaborative data science.

Our goal is to provide all the information that data scientists in academia, industry, government and in the third sector need at the start of their projects to ensure that they are easy to reproduce and reuse at the end.

The book started as a guide for reproducibility, covering version control, testing, and continuous integration. But technical skills are just one aspect of making data science research "open for all".

In February 2020, *The Turing Way* expanded to a series of books covering reproducible research, project design, communication, collaboration, and ethical research.

The Turing Way

Search this book...

Welcome
Guide for Reproducible Research
Guide for Project Design
Guide for Communication
Guide for Collaboration
Guide for Ethical Research
Community Handbook
Afterword

Visit our GitHub Repository
This book is powered by Jupyter Book

Email: msharan@turing.ac.uk, Gitter: gitter.im/alan-turing-institute/the-turing-way

OLS-2 for Turing

The Turing Way has collaborated with OLS to involve **interested mentees and mentors** in Turing to develop Open Science aspects in either **an ongoing or a new project** while working **individually or in teams**.

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Next steps in OLS-2

May 20, 2020: Opening of the applications for OLS-2

TODAY: Pre-application information talk

June 30, 2020: Closing of the standard applications

July 24, 2020: Successful applicants announced

September to December, 2020: 16-week program

Openlifesci.org, **EasyChair:** easychair.org/conferences/?conf=ols2

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OLS-2 for Turing

May 20, 2020: Opening of the applications for OLS-2

TODAY: Pre-application information talk

July 15, 2020: OLS-Turing application deadline

July 30, 2020: Successful applicants announced

September to December, 2020: 16-week program

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OLS Cohort: Open Seeds

January to May 2020 with 20 projects & 29 project leads

20 mentors provide them with biweekly 1 to 1 mentoring support

Weekly schedule, materials and recordings:
openlifesci.org/ols-1

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Image on Unsplash by @v2osk

Start your project and develop strategies

Reflect on the current and desired community interactions

Open Canvas · Value exchanges in the community

Week 2 cohort training: openlifesci.org/ols-1/week02/

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Project roadmap and participation guidelines

Build a welcoming space and invite others to contribute.

Project vision · Roadmap · Code of Conduct · Contribution Guidelines

Week 4 cohort training: openlifesci.org/ols-1/week04/

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Open Science I: Project Development

Gain project management skills & learn from communities.

Agile and iterative project development · Open Software - Hardware - Data

Week 6 cohort training: openlifesci.org/ols-1/week06/

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Open Science II: Dissemination

Sharing science using traditional and non-traditional methods.

Citizen Science · Open Training · Publications, Citation · Scientific output

Week 8 cohort training: openlifesci.org/ols-1/week08/

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Design Inclusive Community & Empower them

Involve diverse perspectives & design against information abuse.

Diversity & Inclusion · Implicit Bias · Persona & pathway for Interactions

Week 10 cohort training: openlifesci.org/ols-1/week10/

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Self Care and Ally Skills

Taking care of yourself and others in sustaining your energy.

Personal Ecology · Mental Health Care · Ally Skills

Week 11 cohort training: openlifesci.org/ols-1/week11/

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Career Guidance

Q&A with professionals from different career paths.

Academics · Industrialists · Educators · Policy Makers · Entrepreneurs

Week 11 cohort training: openlifesci.org/ols-1/week11/
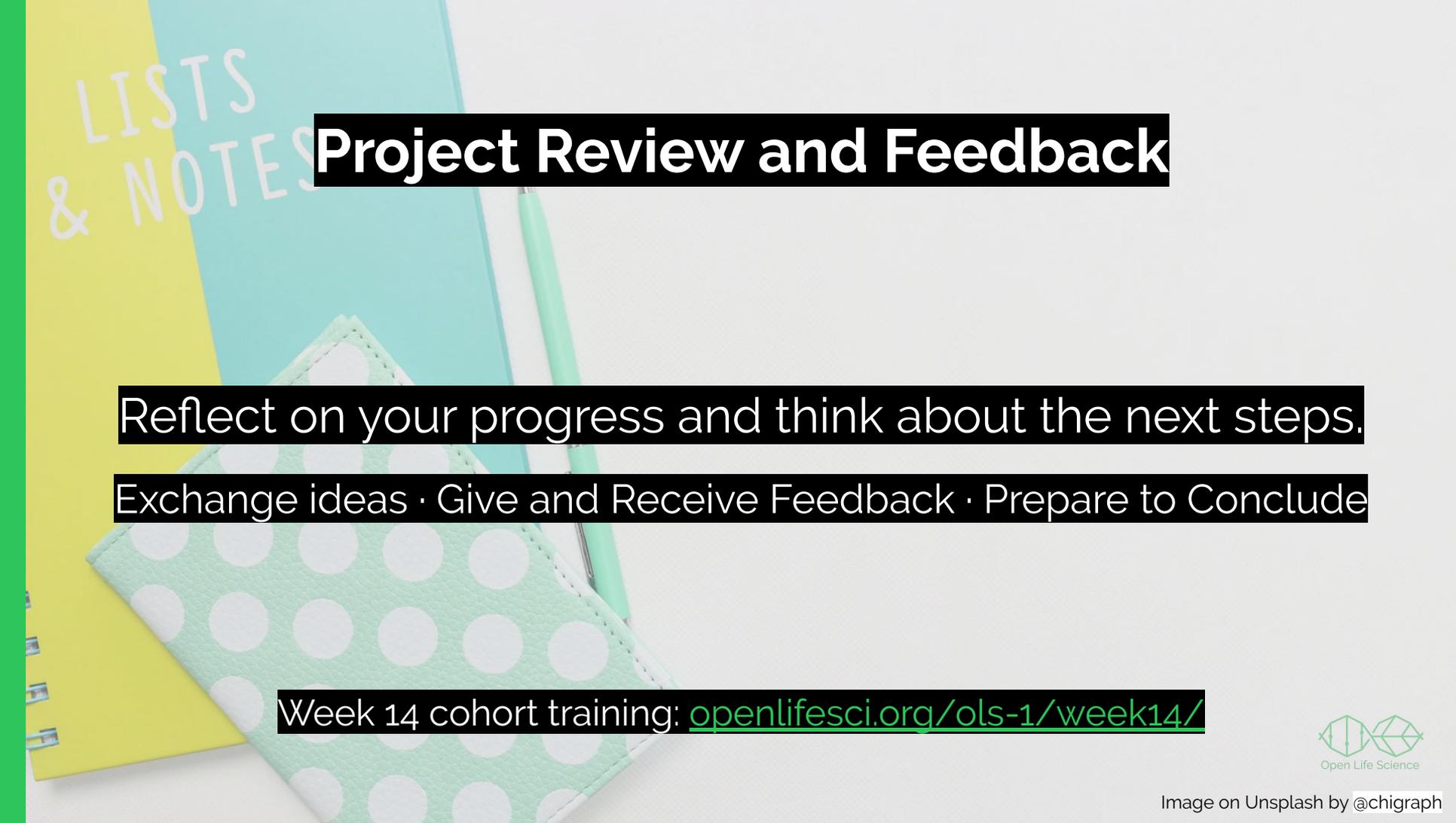
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Project Review and Feedback

Reflect on your progress and think about the next steps.

Exchange ideas · Give and Receive Feedback · Prepare to Conclude

Week 14 cohort training: openlifesci.org/ols-1/week14/

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Image on Unsplash by @chigraph

Final Presentations and Graduation

Share your project status and outcome with the group.

Celebrate success · Reflect and learn from failures · Lead your community

Week 15 cohort training: openlifesci.org/ols-1/week15/

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OLS-2

Many successful mentees from OLS-1 are returning in mentor roles to work along with existing **mentors and experts**.

We are developing an additional curriculum to discuss **research and data management**.

OLS-2 for Turing

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Acknowledgements

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OLS-1 mentors

OLS-1 experts
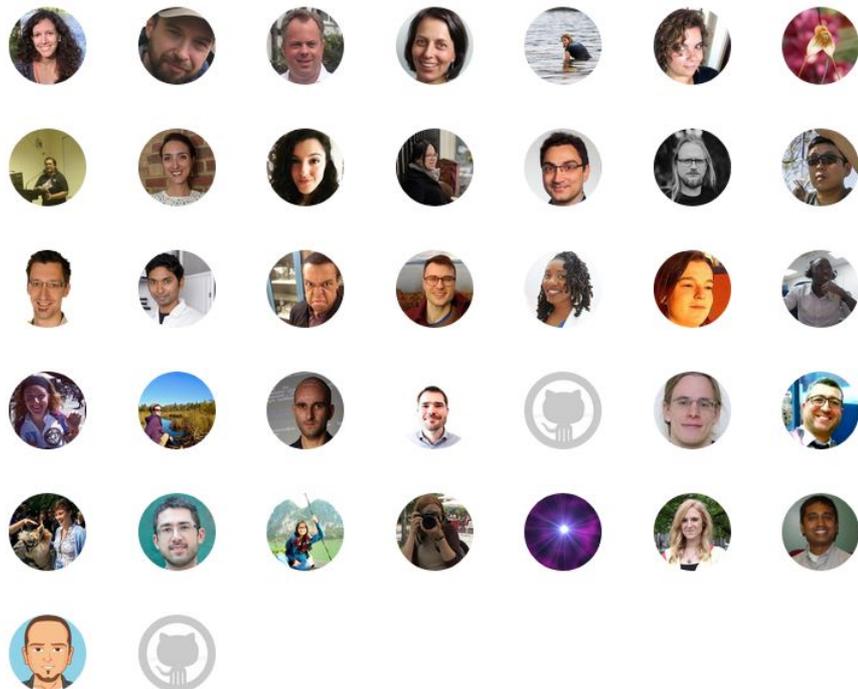
Partners, sponsors and affiliations of the founders

Abigail Cabunoc Mayes
from Mozilla

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