

WP6 Skills development

Summary for September 2020 AHM

Marcin Płóciennik

PSNC



WP6 – a reminder!

WP6 aims to expand the EOSC training and education capabilities through the introduction of an online platform aimed at boosting the development of EOSC skills and competences.

6.1 Deployment and customisation of the training platform (Lead: PSNC)

- MOOC based platform Learn@Synergy and Hackathon as a Service

6.2 Methodology and certification of the tutorials (Lead: Jisc)

- Train the trainer programme to use the platforms & create high quality online content

6.3 Interaction with national education programmes (Lead: CSIC)

- Embedding training resources in national programmes to improve skills

Milestones and Deliverables of WP6

September 2019

September 2020



→ **Milestones achieved** ★

M6.1 “Training platform survey” (M3)

M6.2 “Release of EOOSC customized training platform” (M9)

→ **Deliverables** ★

D6.1 “Training material and quality assurance guidelines“ (M12)

D6.2 Report on the final release of the customized training platform including the self-deployable tutorials capabilities, and Hackaton_aaService platform (30th May 2021)

WP6 reminder - expected outputs

- Basic tutorials on EOSC services and more advanced tutorials
- Tutorials could be downloaded or used on Learn@Synergy platform
- Sustainable platform: A suite of tools including MOOC, hackathon, interactive tools & others
- The tools that could be used on our site or offered to institutions to deploy
- Guidance and best practice (for our platform or other learning platforms)

WP6 reminder – sessions and meeting open points

- Sessions:

- Internal meeting Tue 16.30-17.30

- We invite in particular representatives of the T6.3 from different institutions including: LIP 3PM, PSNC 3PM, CESNET 3PM, UPV 3PM, Jisc 3PM, INCD 3PM, KIT 3PM

- Training tools and tutorial best practices Thu 14.30-15.00

- Presentation
 - General session, we invite everybody interested in training preparations

- Potential cases for the tutorials: MOOC preparation

- Interactive/working session
 - General session, we invite everybody interested in training preparations

- Expectation:

- Discuss the engagement proces of potential use cases

WP6 Task 6.1

Summary for September 2020 AHM

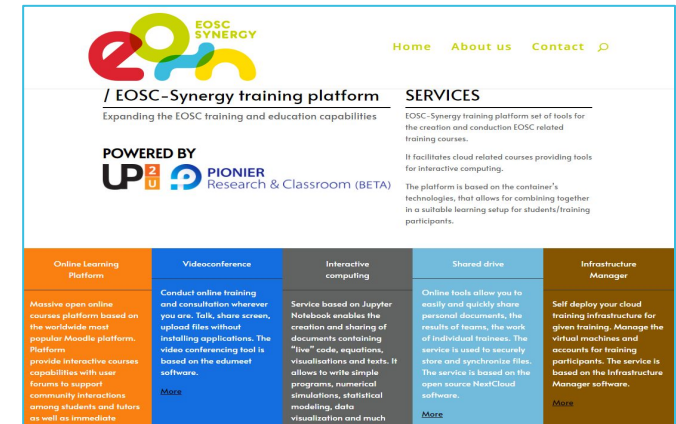
Marcin Płóciennik

PSNC



Task 6.1 update: Learn@Synergy

- Platform deployed at PSNC:
 - <https://learn.eosc-synergy.eu/>
 - Composed of
 - Moodle: production/development instance
 - Videoconference: based on eduMeet
 - Interactive computing: based on Jupyter Notebook
 - Shared drive: based on NextCloud
 - Self deployment of the the training infrastructure: based on IM
- Integration with EGI-Checkin (dev at the moment)
- Now Infrastructure Manager installed at PSNC
 - Few issues with the configuration/certificates solved
 - In testing phase, before integration with EGI-checkin
 - Thanks to UPV team for helping us, specially Miguel
- So far failed with OpenEdx installation (issues with the available versions)



The screenshot shows the website for the EOSC-Synergy training platform. At the top, there is a navigation menu with links for Home, About us, and Contact. Below the navigation, the main heading reads "/ EOSC-Synergy training platform" with a sub-heading "Expanding the EOSC training and education capabilities". To the right, there is a "SERVICES" section with a brief description of the platform's purpose and a note that it is based on container technologies. Below this, there is a table with five columns, each representing a different service provided by the platform:

Online Learning Platform	Videoconference	Interactive computing	Shared drive	Infrastructure Manager
Massive open online courses platform based on the worldwide most popular Moodle platform. Platform provides interactive courses capabilities with user forums to support community interactions among students and tutors as well as immediate	Conduct online training and consultation wherever you are. Talk, share screen, upload files without installing applications. The video conferencing tool is based on the edumet software. More	Service based on Jupyter Notebook enables the creation and sharing of documents containing "live" code, equations, visualizations and texts. It allows to write simple programs, numerical simulations, statistical modeling, data visualization and much More	Online tools allow you to easily and quickly share personal documents, the results of teams, the work of individual trainees. The service is used to securely store and synchronize files. The service is based on the open source NextCloud software. More	Self deploy your cloud training infrastructure for given training. Manage the virtual machines and accounts for training participants. The service is based on the Infrastructure Manager software. More

Task 6.1 update: Hackathon as a Service

- Infrastructure Manager integration achieved
 - First version with OpenStack working
 - Thanks to UPV team for helping us, specially Miguel
 - How it works:
 - i. Hackathon manager sets up participants infrastructure
 - Hackathon details
 - Infrastructure credentials
 - Hackathon infrastructure details
 - ii. When participants join a hackathon, the infrastructure for each participant is transparently deployed using IM in the backend
 - Access to VMs is shown on the screen



Hackathon configuration



Add IM hackathon

Name

Start date

End date

Infrastructure

Infrastructure credentials

Host

Username

Password

Infrastructure configuration

VMs per user

CPUs per VM

RAM per VM

Image

Hi test_manager! [logout](#)

Infrastructure access by participants



Hackathon Manager

View hackathon

Name: IM Prueba
Hackathon manager: test_manager
VM per user: 2
Start date: Aug. 30, 2020, 7 p.m.
End date: Aug. 31, 2020, 7 p.m.

IP: 193.146.117.236 Username: cloudadm [Download credentials](#)

IP: 193.146.117.239 Username: cloudadm [Download credentials](#)



Infrastructure
Manager

Hi test_developer! [logout](#)

T6.1 - Next steps

- **Learn@Synergy**
 - Finalise the integration with EGI-checkin (also IM@PSNC)
 - Support T6.2 and T6.3 with the platform exploitation
 - Website improvements as the learning modules will be created
- **HaaS**
 - Test more infrastructures (in progress...)
 - Graphical design improvement
 - Define the exploitation model
 - Explore the possibility to make even easier for managers the usage of EOOSC infrastructure
 - Keep looking into the possibility of deploying a tool for datathons

WP6 Task 6.2

Summary for September 2020 AHM

Helen Clare

Jisc



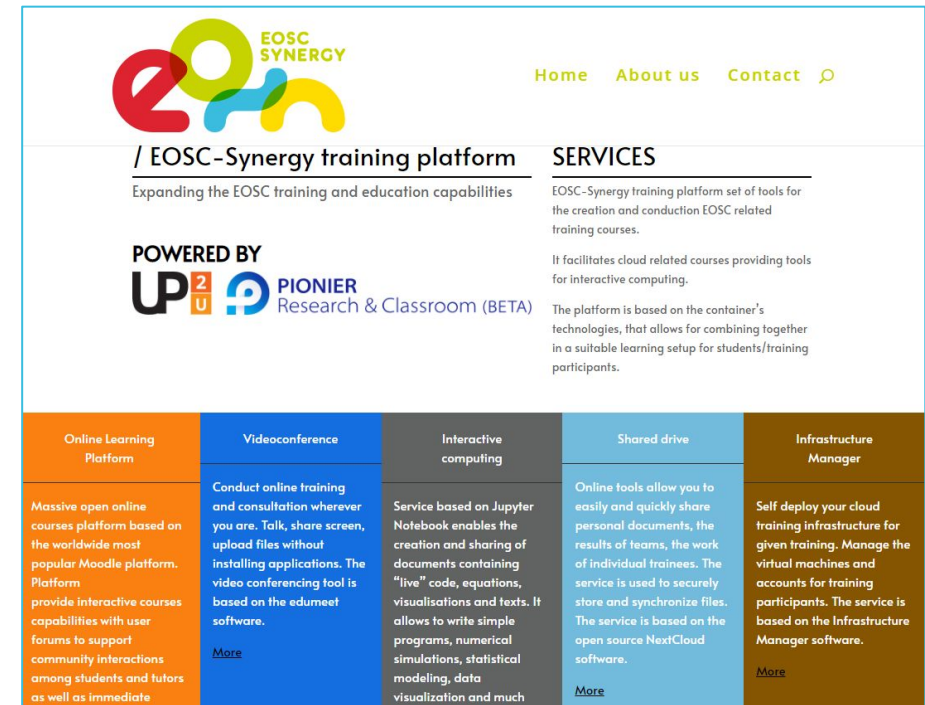
Task 6.2 update: report published

Released report on initial review and research phase

<http://digital.csic.es/handle/10261/212291>

This informed 6.1 development of the learning platform:

- Not just one platform, but a suite of tools
- Agile approach to development of the platforms
- Initial selection of core learning platforms based on EOSC values and technical requirements



The screenshot shows the website for the EOSC-Synergy training platform. At the top left is the EOSC SYNERGY logo. To the right are navigation links for Home, About us, and Contact. Below the logo is the text "/ EOSC-Synergy training platform" and "Expanding the EOSC training and education capabilities". On the right side, there is a "SERVICES" section with three items: "EOSC-Synergy training platform set of tools for the creation and conduction EOSC related training courses.", "It facilitates cloud related courses providing tools for interactive computing.", and "The platform is based on the container's technologies, that allows for combining together in a suitable learning setup for students/training participants." Below this is a table with five columns: Online Learning Platform, Videoconference, Interactive computing, Shared drive, and Infrastructure Manager. Each column has a brief description and a "More" link.

Online Learning Platform	Videoconference	Interactive computing	Shared drive	Infrastructure Manager
Massive open online courses platform based on the worldwide most popular Moodle platform. Platform provide interactive courses capabilities with user forums to support community interactions among students and tutors as well as immediate	Conduct online training and consultation wherever you are. Talk, share screen, upload files without installing applications. The video conferencing tool is based on the edumeeet software. More	Service based on Jupyter Notebook enables the creation and sharing of documents containing "live" code, equations, visualisations and texts. It allows to write simple programs, numerical simulations, statistical modeling, data visualization and much	Online tools allow you to easily and quickly share personal documents, the results of teams, the work of individual trainees. The service is used to securely store and synchronize files. The service is based on the open source NextCloud software. More	Self deploy your cloud training infrastructure for given training. Manage the virtual machines and accounts for training participants. The service is based on the Infrastructure Manager software. More

Task 6.2 update: content development

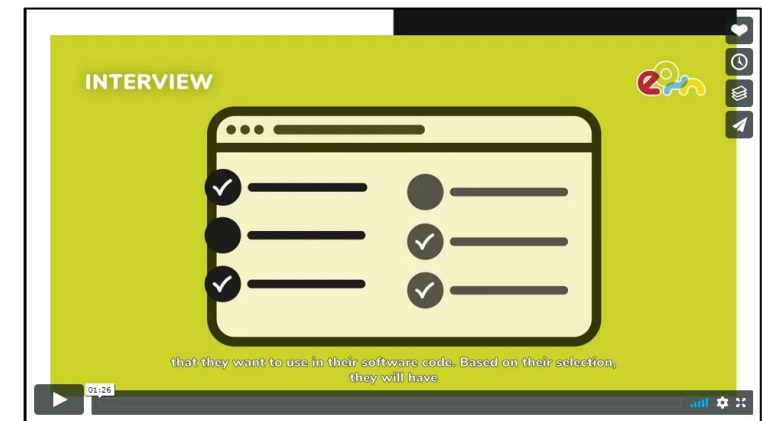
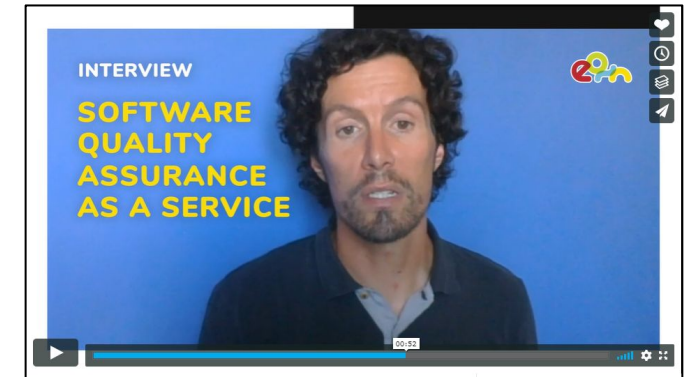
Content creation for introductory module

- Content will act as an example of best practice
- And also be available for re-use by others

Four themes:

- Open science, EOSC and EOSC-Synergy
- FAIR principles
- Data management
- Data management plans

First theme ready for upload to Moodle



Task 6.2 update: deliverable 6.1 completed

Training materials and quality assurance guidelines

- Detailed planning for the development of these outputs

Implementation plan

- Sept 2020-Feb 2021: Content development and piloting
- Mar 2021-Aug 2021: Training programme delivery
- Sept 2021-Mar 2022: Embedding and ongoing support

Task 6.2 Next phase

- Creating our training programme on designing and delivering effective online learning
- Finishing our example online course
- Continuing to build links with institutions and national programmes
- Working with other EOOSC Synergy workpackages to support training delivery

*Please come to our sessions on **Thursday pm** and find out how we can support you!*

WP6 Task 6.3

Summary for September 2020 AHM

Isabel Bernal
Digital.CSIC



Update on T.6.3

- **6.3 Interaction with national education programmes**

Lead: CSIC. Contributors: LIP, PSNC, CESNET, UPV, Jisc, INCD, KIT

Duration: M15-M30

- Embedding **training resources in national programmes** to improve skills
- This task will establish contact and collaborate with **Universities (in EOOSC SYNERGY participating countries)** with programmes focused on EOOSC relevant topics
- **This focus to expand to include other potential audiences and stakeholders** such as research libraries, thematic communities, communities of practice/Open Science networks
- **Close collaboration with T.6.2**

Promoting EOSC SYNERGY tools/content, raising EOSC related skills, developing use cases: communities to target (Oct 2020-February 2021)



**EOSC SYNERGY
countries:
Universities, other
potential
communities**

**Research
libraries/Repositories
communities**

**Communities of
Practice**

University Networks

**Other Open Science
Stakeholders**

AHM good for:

- Bringing together the team to implement T6.3 agenda
- Identifying EOSC SYNERGY partners in close contact with national and local university networks/training/repositories/Open Science networks
- Receiving feedback from all EOSC SYNERGY partners



- **WP6 internal meeting 16:30-17:30 Tuesday**
- **Potential cases for the tutorials: MOOC preparation 17:00-18:00 Thursday**