SOLARNET

Integrating High Resolution Solar Physics

# **WP4** Engagement, Dissemination & Communication

*SOLARNET 1st General Assembly*
Prague

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824135.

Northumbria University NEWCASTLE

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# WP4 Objectives

- **Build capacity** in the SOLARNET community through Public Engagement training;
- **Share best practice** in effectively utilising outreach to engage and educate, **engendering changes in attitudes** – both amongst consortium members and the general public;
- **Share key achievements** of the consortium and related science with the wider research community and the general public.
- Develop and maintain the plan for the dissemination and exploitation of the project's results and the data management plan.

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# Activities in year 1

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# WP4.2 Communication & dissemination – **Website**

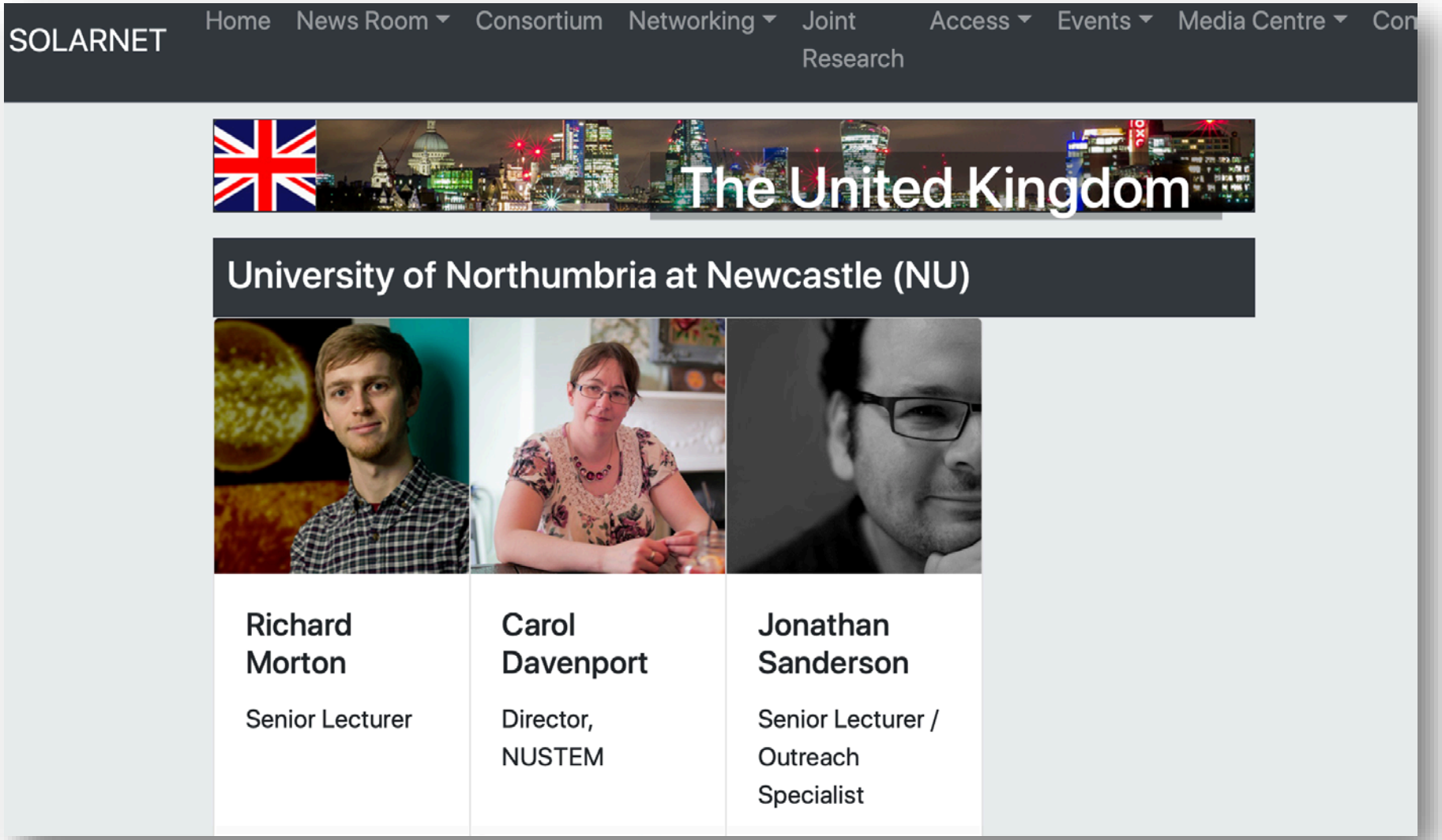
https://solarnet-project.eu/

**Task 4.2.1** *Development of infrastructure and maintenance of SOLARNET community website*

**M4.1 & D4.1** Delivery of first version of SOLARNET website

**Task 4.2.4** *Delivery of online content (*On-going*)*

Scientist profiles: to showcase community and diverse careers in solar physics.



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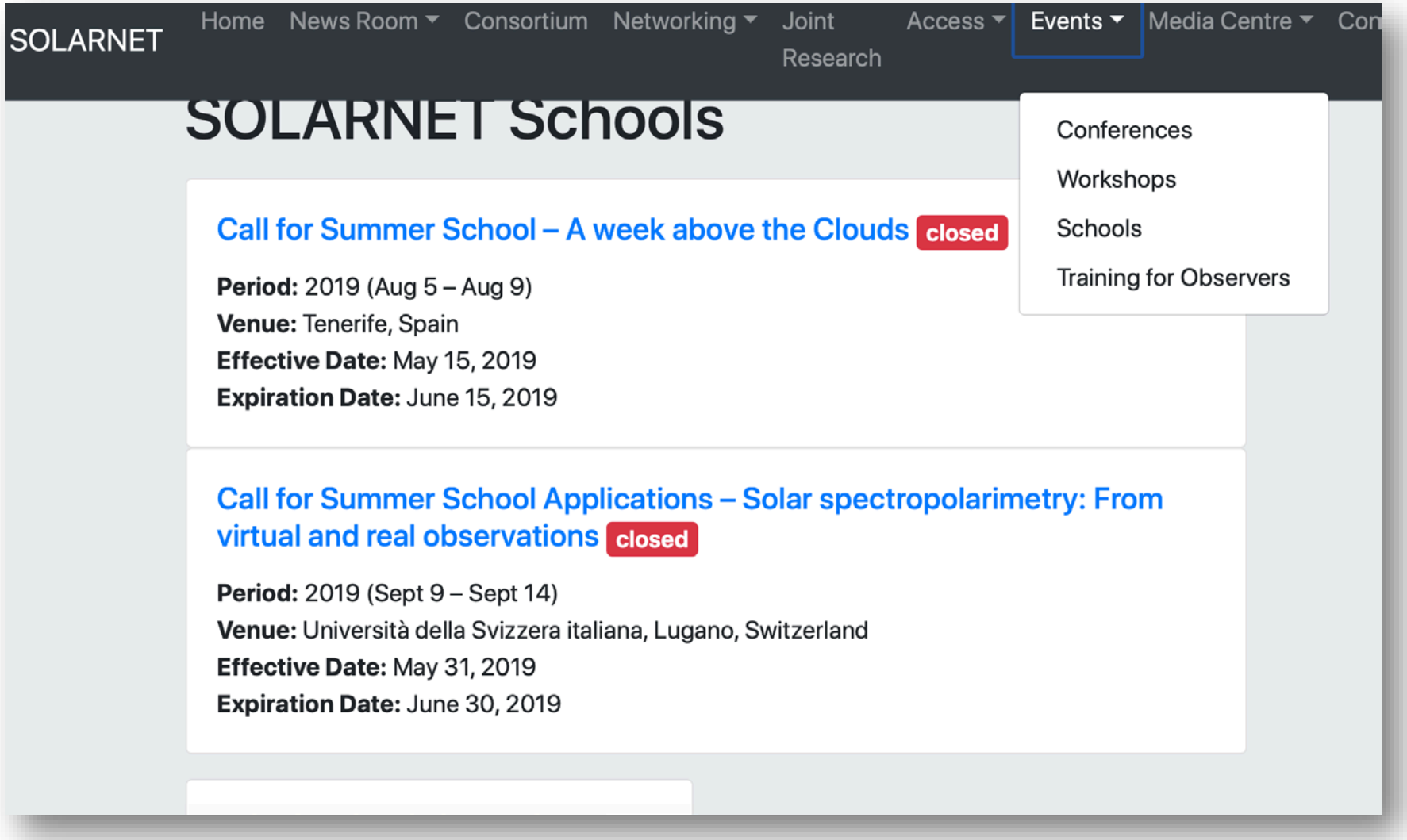
# WP4.2 Communication & dissemination – **Conferences**

**Task 4.2.3** *Conference platform*

Opening and maintaining dedicated websites for all schools, workshops and conferences organized within the SOLARNET project.



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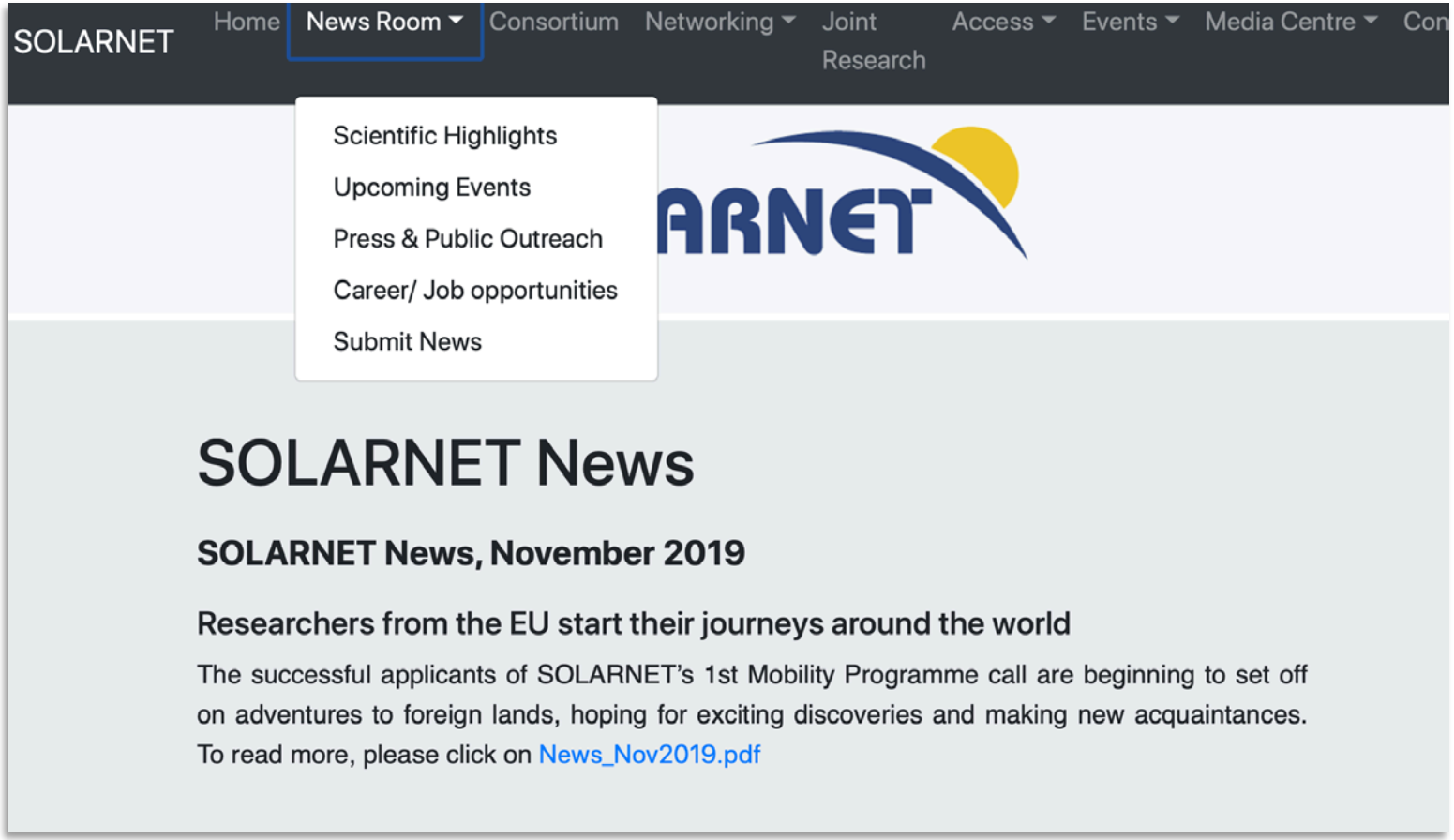
# WP4.2 Communication & dissemination – **News**




Possible to submit news to the website.

Fantastic to have a short story after:

- each SOLARNET event,
- milestones are met,
- Research publications
- Any other exciting development

News advertised more widely via social media.

**Task 4.2.4** *Delivery of dynamic online content* (On-going)

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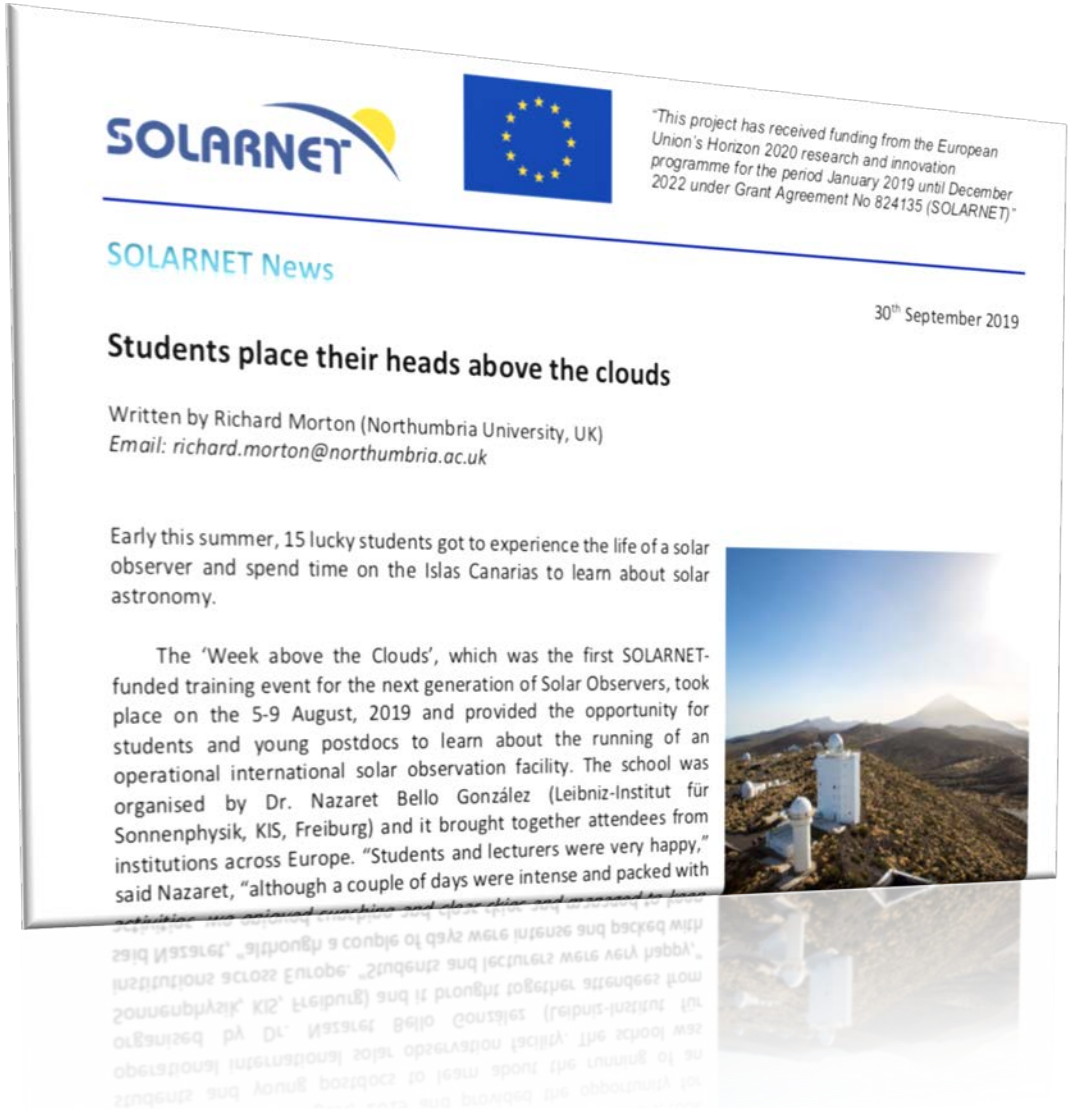
# WP4.2 Communication & dissemination – **News**



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"This project has received funding from the European Union's Horizon 2020 research and innovation programme for the period January 2019 until December 2022 under Grant Agreement No 824135 (SOLARNET)"

SOLARNET News

30th September 2019

## Students place their heads above the clouds

Written by Richard Morton (Northumbria University, UK)
*Email: richard.morton@northumbria.ac.uk*

Early this summer, 15 lucky students got to experience the life of a solar observer and spend time on the Islas Canarias to learn about solar astronomy.

The 'Week above the Clouds', which was the first SOLARNET-funded training event for the next generation of Solar Observers, took place on the 5-9 August, 2019 and provided the opportunity for students and young postdocs to learn about the running of an operational international solar observation facility. The school was organised by Dr. Nazaret Bello González (Leibniz-Institut für Sonnenphysik, KIS, Freiburg) and it brought together attendees from institutions across Europe. "Students and lecturers were very happy," said Nazaret, "although a couple of days were intense and packed with

*Example 'Week Above the Clouds'* - Two attendees were asked for detailed comments to help write the story.

Comments also provide testimonials about the event, evidence for reporting socio-economic impact (to be used in conjunction with feedback questionnaires).

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# WP4.1 *SOLARNET Public Engagement Training Workshop*

- Two training workshops aimed at both *early career and senior researchers*
- Build confidence, skills & perspective for a wide range of communication activities & situations.
- First workshop will be loosely themed around engagement with schools,
- Second workshop (in 2021) having elements of collaboration masterclass.

**Facilitated by highly experienced and award-winning public engagement professionals, who've worked with researchers of all levels.**


**Task 4.1.1** Design Continued Professional Development (CPD) workshops

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# *1st SOLARNET Public Engagement Training Workshop*

**M4.2 & Task 4.1.2** *The delivery of CPD workshops & training events*

## 31st March – 1st April 2020, Northumbria University, Newcastle, UK

Workshop will cover:

- *Why do we want to 'engage the public with science?'*
- *Designing for evaluation, pathways to impact, and writing engagement into research bids.*
- *Contexts & approaches: the range of opportunities available for science communication.*
- *How to talk to people. Understanding your audience, and the 'communication' part of 'science communication'.*
- *Unconscious bias: implications and mitigations.*
- *Empty vessels to science capital and co-creation: developments and trends within public engagement*.

Particular emphasis on working with schools. The lessons will be applicable in a wider range of engagement contexts, however we also expect the workshop will spark the development of new classroom activities.

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# *Public Engagement Training at Schools*

Short session on Public Engagement at summer/winter schools. Promised to be delivered during at least 3 schools.

'*An introduction to science communication*' targeted at students and early career researchers

- **A holistic view of the solar atmosphere (UK 2020)**
- High-resolution solar observations (Austria 2020)
- **Solar corona - complex research from ground-base and space (Slovakia 2021)**
- **Solar atmospheric dynamics - From waves to instabilities and jets. (UK 2022)**

NU to deliver these sessions. Specific evaluation exercise associated with PE training.

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# WP4.1 '*Community attitudes to Outreach*'

**Task 4.1.4** *Develop suitable criteria for assessing impact of CPD*

**Collecting data** on the *attitudes towards public engagement* across the member organisations and researchers in EU.

We would like to explore how attitudes and activities differ between countries.

Towards the end of the SOLARNET project, we will send out a similar survey to look at any changes in attitudes and activities during the SOLARNET project.

Potential for publication – 'First EU wide survey of attitudes of researchers to public engagement'.
REQUIRES community engagement – *please complete the questionnaire*!

Along with follow up surveys can be put forward as evidence for socio-economic impact.

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# '*Community attitudes to Outreach*'

SCAN ME

https://northumbria.onlinesurveys.ac.uk/solarnet-public-engagement-survey-2019-2

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# Activities for year 2

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# WP4.1 Training – Progress

**Task 4.1.3** *Provision of resources for training, education and outreach*

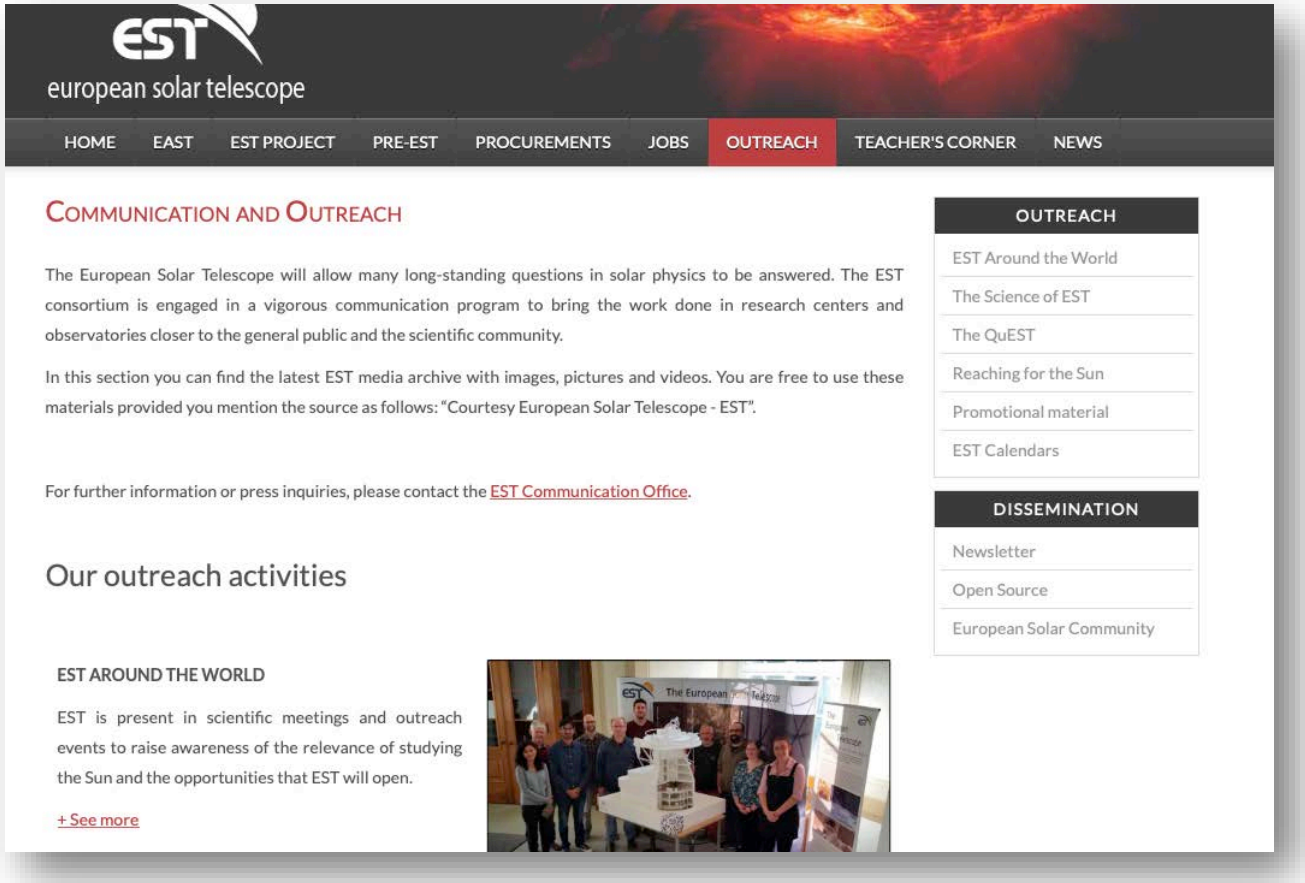
**D4.2** Provide initial resources for training and outreach for consortium members

**Due Month 18**

Support continued community development and post-workshop activities.

Workshop content and additional training materials will be made open access online.

Looking to include presentations/ activities from partners - *share best practice*.



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# Scientist profiles

Contacting individuals who expressed interest in being involved.

Provide an alternative scientist profile to be used in school outreach:

- Highlight people who work in science
- Different jobs available
- Attributes required for scientist

Printable cards to be used as part of engagement with young people.

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# WP4.3 *Exploitation, Dissemination & Communication Plan*

**D4.5** Exploitation, Dissemination & Communication Plan

**Due Month 18**

Covers how the consortium will disseminate activities.

**Targeted audiences** - from pupils, students, researchers and engineers, up to private sector, mass media and policy makers

Draft document underway, requires input from other WP's esp. around facilities & archives– *How do you plan to disseminate/communicate your activities?*

REMINDER: At the end of the grant we need to detail our Communication and Dissemination activities – how to collect information and monitor activities?

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# Sun & Society

**Conference** - The objective of this meeting is to create and tighten links between solar science and society by involving heliophysics scientists, stakeholders and economists.

An article for popular science magazine (or editorial) that looks at Sun & Society, including discussions from all parties.

Timed with meeting.

**Help/Ideas welcome!**

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# EU Solar Physics (EUSP) Nuggets

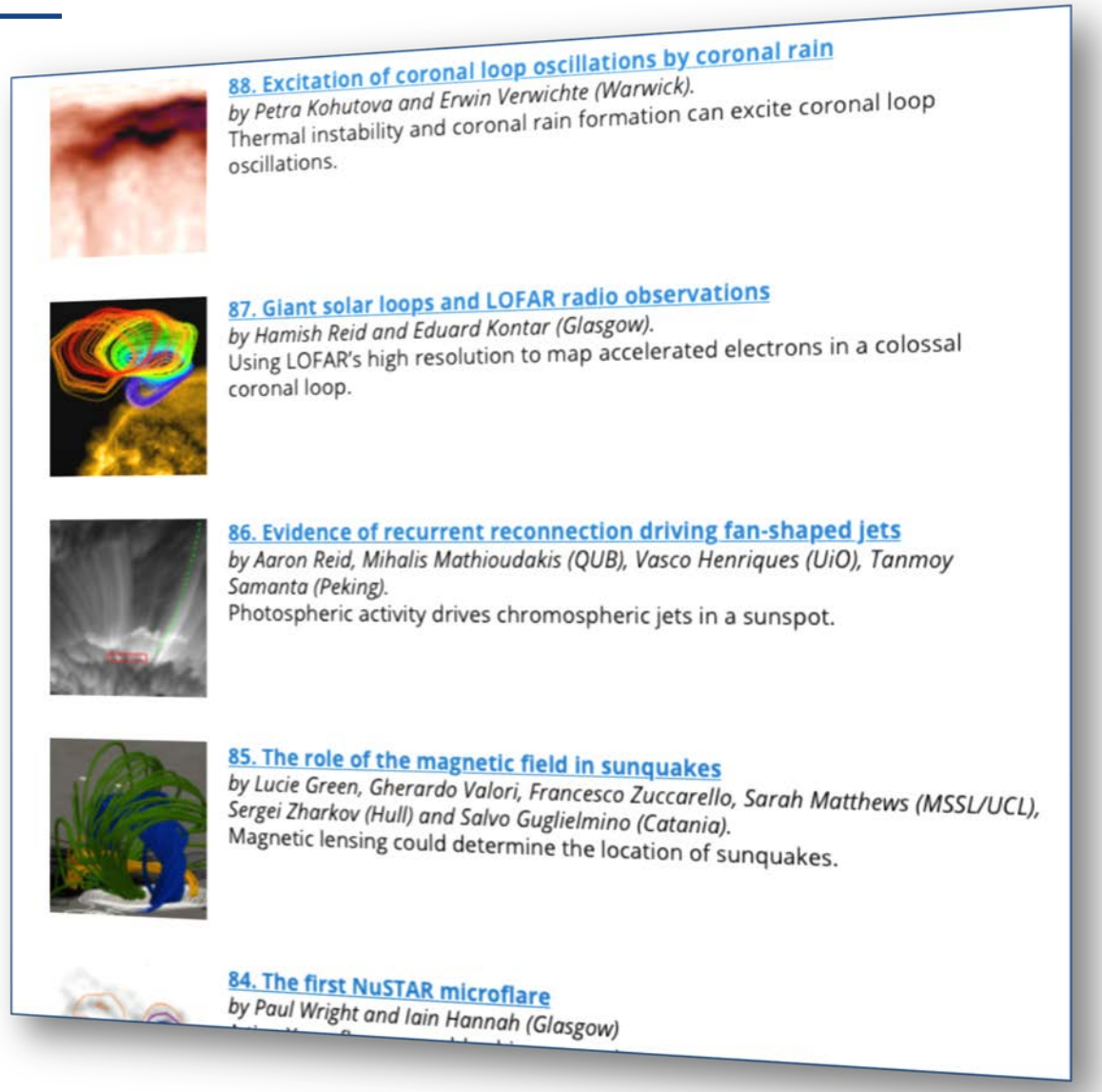
Bite-size science article

Potentially modelled on UKSP nuggets (http://www.uksolphys.org/uksp-nuggets/)

Short article that summarises recent work (published/unpublished)

- 7-8 paragraphs
- 2/3 pictures

Typical UKSP Nuggets get 100 views in first week. Over lifetime ~1000 views.



88. Excitation of coronal loop oscillations by coronal rain
*by Petra Kohutova and Erwin Verwichte (Warwick).*
Thermal instability and coronal rain formation can excite coronal loop oscillations.

87. Giant solar loops and LOFAR radio observations
*by Hamish Reid and Eduard Kontar (Glasgow).*
Using LOFAR's high resolution to map accelerated electrons in a colossal coronal loop.

86. Evidence of recurrent reconnection driving fan-shaped jets
*by Aaron Reid, Mihalis Mathioudakis (QUB), Vasco Henriques (UiO), Tanmoy Samanta (Peking).*
Photospheric activity drives chromospheric jets in a sunspot.

85. The role of the magnetic field in sunquakes
*by Lucie Green, Gherardo Valori, Francesco Zuccarello, Sarah Matthews (MSSL/UCL), Sergei Zharkov (Hull) and Salvo Guglielmino (Catania).*
Magnetic lensing could determine the location of sunquakes.

84. The first NuSTAR microflare
*by Paul Wright and Iain Hannah (Glasgow)*