



PNOWWA Website

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PNOWWA

PROBABILISTIC NOWCASTING OF WINTER WEATHER FOR AIRPORTS

This deliverable D7.2 “PNOWWA Website” is part of a project that has received funding from the SESAR Joint Undertaking under grant agreement No 699221 under European Union’s Horizon 2020 research and innovation programme.



Abstract

PNOWWA website will introduce the project for wider audiences and offers intranet services for the PNOWWA team and SJU/SESAR project personnel.

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1 Executive Summary

This document will describe the PNOWWA website format/layout, main content and development plan. The website address is <http://pnowwa.fmi.fi>.

2 Introduction

PNOWWA - Probabilistic Nowcasting of Winter Weather for Airports – is a research project developing methods to support the Air Traffic Management (ATM) challenged by winter weather. Our methodology is based on probabilistic nowcasting of winter weather, which will enable the estimation of winter weather conditions affecting the ground part of air traffic 4D trajectories. This kind of ATM methods and tools are called for, because the uncertainties during flight, departure and arrival at airports create a need to effectively utilize probability forecasts, both in the local operational user environment and en-route.

Our research work focuses on quantifying the uncertainties related to delays in ground operations due to winter weather situations. When applied to ATM applications, our methods will enhance timely operations in surface management and ATM decision making, will increase airport capacity, shorten delays and will also promote safety. PNOWWA will demonstrate very short-term (0-3h nowcast) probabilistic winter weather forecasts in 15min time resolution based on extrapolation of the movement of weather radar echoes and improve predictability of changes in snowfall intensity caused by underlying terrain (such as mountains and seas). We are also planning research demonstrations that are conducted both offline and online at the Operative User Environment (OUE) site representing influence of the underlying terrain to forecast accuracy.

All update requests to this document shall be made for Project Manager (harri.haukka@fmi.fi) by email and a copy of the email shall be send to Project Coordinator (ari-matti.harri@fmi.fi) and Science/WP Manager (elena.saltikoff@fmi.fi).

3 PNOWWA Website Layout

3.1 Website Content Management System (CMS)

PNOWWA website are maintained and developer by using Open Source TYPO3 CMS (Content Management System) version 7.2.2. TYPO3 CMS has been widely used and it provides the basis for websites, intranets and web/mobile applications.

The access rights for the PNOWWA TYPO3 CMS backend/development environment are controlled by the website administrator Mr. Harri Haukka (harri.haukka@fmi.fi). There are no plans to give backend access rights outside the team and, excluding Mr. Haukka (the administrator), only non-admin access rights are given to PNOWWA team members. This decision is based on the security and personal/institutional data protection matters.

3.2 Website General Layout

The following figures illustrate the PNOWWA website general layout. It has to be noted that layout may be updated during the project.



Figure 3.1: PNOWWA website main page.

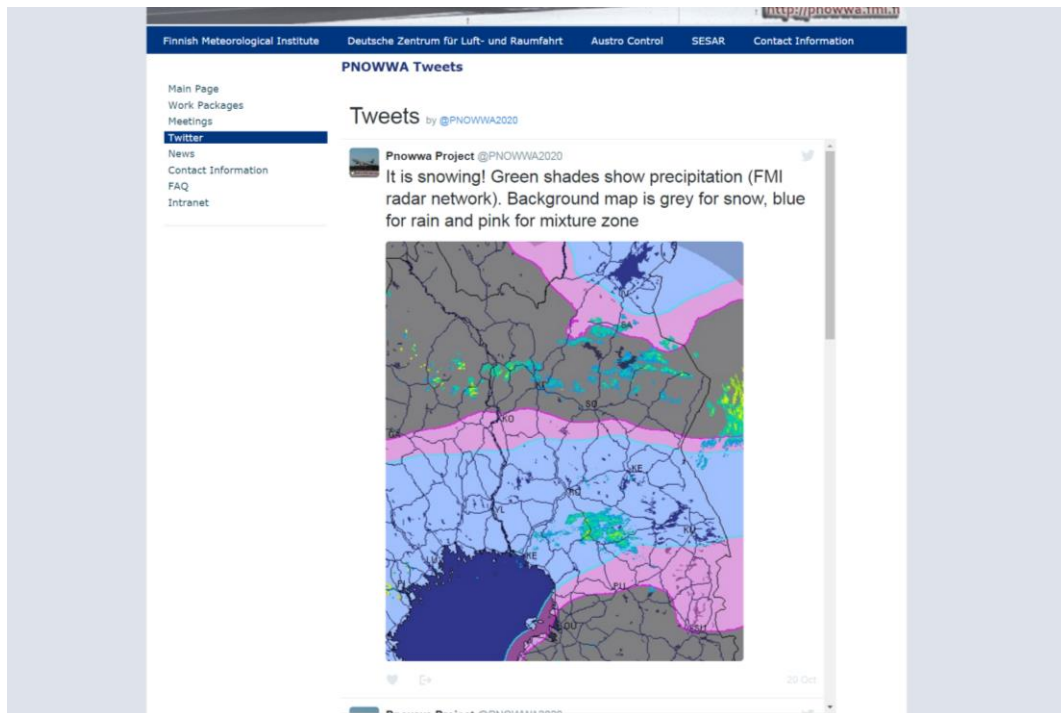


Figure 3.2: PNOWWA Twitter page.



Figure 3.3: PNOWWA intranet website. Password protected.

4 The Content of the Website

4.1 PNOWWA Website Introduction

The public pages are for introducing the project for wider audience. These pages include the following sub-pages:

1. **Main page**
 - Introduces the project
2. **Work Packages**
 - Describes the PNOWWA work packages and work.
 - Includes individual tasks of each WP
3. **Meetings**
 - Basic information regarding the meetings where PNOWWA will participate and/or organize.
4. **Twitter**
 - Tweets of the PNOWWA Twitter account (<https://twitter.com/PNOWWA2020>)
 - Pnowwa Project / @PNOWWA2020
5. **News**
 - Basic news from PNOWWA team
6. **Contact Information**
 - Contact information of each WP leader and other core team members.
7. **FAQ**
 - Questions and answer regarding the PNOWWA project. Will be updated if needed.

The intranet subpage is only for PNOWWA team members and SJU/SESAR personnel. It is password protected and password can be acquired from the website administrator Mr. Harri Haukka (harri.haukka@fmi.fi).

The overall content of the intranet website is:

1. **Meeting and Workshop Documentation**
 - All documentation regarding the PNOWWA meetings
 - Minutes of the Meetings, Presentations, Reports, etc.
2. **Dissemination and Publications**
 - Dissemination material that has been published or is under publishing
 - Articles, Presentations, etc.
3. **Literature**
 - Reference literature list for background knowledge of the subject

4. Deliverables

- All deliverables of the project
- List of deliverables
- List of delivery dates/months
- Submitted deliverables as PDF's

5. Schedule and Actions

- Schedule of the project
- Action Item list (Excel file). To be updated regularly.
- Risk Management Matrix (Excel file). To be updated regularly.

6. Steering Group

- Steering Group members and info page

4.2 PNOWWA Twitter Account

PNOWWA project has a Twitter account that is used for announcing project related news and events as well as promoting the project inside the ATM field and general public. The Twitter account is located on the address <https://twitter.com/PNOWWA2020> and the name of the account is “Pnowwa Project / @PNOWWA2020”.

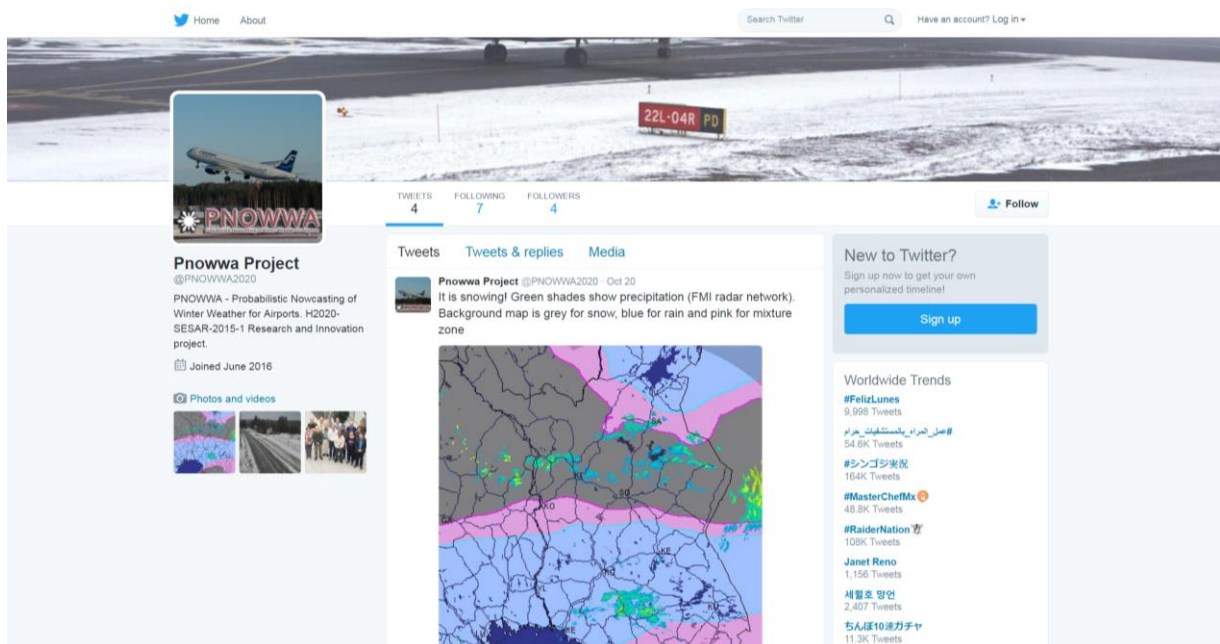


Figure 4.1: PNOWWA Twitter page (<https://twitter.com/PNOWWA2020>).

5 Website Development Plan

PNOWWA website will be updated regularly. For the general public the most visible part of the website that will be updated is PNOWWA Twitter feed. Twitter will be one of the projects main channels for reaching the general public.

For project internal work, the “meeting and workshop documentation” -page will be updated when meetings are held. Also the “Dissemination and Publications” and “Deliverables” –pages will be updated regularly.

6 References

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http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm
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