

# ICE GENESIS

## Creating the next generation of 3D simulation means for icing

Type of action: Research and Innovation Action

Call identifier: H2020-MG-2018-SingleStage

Topic: MG-2-5-2018 Innovative technologies for improving aviation safety and certification in icing conditions

### Deliverable D2.4

#### ICE GENESIS Public Website

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Lead beneficiary of this deliverable:

5# ARTTIC

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Type		
R	Document, report excluding the periodic and final reports	
DEM	Demonstrator, pilot, prototype	
DEC	Websites, patents filing, press & media actions, videos, etc.	x
OTHER	Software, technical diagram, etc.	
ETHICS	Ethics requirement	
ORDP	Open Research Data Pilot	
Dissemination level		
PU	PUBLIC, fully open, no embargo e.g. web	x
PU*	PUBLIC after embargo of 12 months	
RE	RESTRICTED, only for certain members of the consortium (including the Commission Services): specify here which consortium members have access to the document	
CO	CONFIDENTIAL, only for members of the consortium (including the Commission Services)	
CO+IGAB	CONFIDENTIAL, only for members of the consortium (including the Commission Services) and for the ICE GENESIS Advisory Board	

## Revision History

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V #	Date	Description / Reason of change	Author
<b>R0.1</b>	21/05/2019	Creation of the document	J. Elleouet (ARTTIC)
<b>R0.2</b>	27/06/2019	Addition of screen capture	J. Elleouet (ARTTIC)
<b>R1.0</b>	28/06/2019	Finalization of the document	J. Elleouet (ARTTIC)

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# 1 Glossary

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Abbreviation / Acronym	Description/meaning
EC	European Commission
EU	European Union
DoA	Description of Action (Annex 1 of the Grant Agreement)
GA	Grant Agreement
GDPR	General Data Protection Regulation
WP	Work packages

## 2 Executive Summary

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The ICE GENESIS Public web site is part of the Dissemination and Communication strategy of the project. Consequently, its design, realisation and updates have been assigned to WP2 – Dissemination and Exploitation led by ARTTIC.

The current document describes how the site has been designed and realised and provides an overview of the existing pages and their content, which has been approved by the partners of the consortium. The website will be updated continuously especially the sections on publications and news and events during the project and remain accessible after the end of the project.

The ICE GENESIS web site can be consulted at: [www.ice-genesis.eu](http://www.ice-genesis.eu)

### 3 Introduction

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The present document describes the purpose, as well as the overall structure of the ICE GENESIS public website. The latter has been designed and provided by ARTTIC, based on the ICE GENESIS visual identity and with content provided and approved by the partners.

The first version of the ICE GENESIS public website comprises details about the project objectives and work plan, together with the list of participants. Throughout the project, the website will become a major tool to present the project outcomes to a wide audience beyond the scientific community.

The ICE GENESIS public website is integral part of the ICE GENESIS communication and dissemination strategy and will be used as a mean to share with the public not only general information about the project, but also public deliverables, project results, publications, presentations, events etc.

The images used for the first issue of the website will be updated throughout the project to include as many nonconfidential images from the project as possible.

## 4 Objective and Target Audience

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### 4.1 Objectives

The public ICE GENESIS website can be reached at <https://www.ice-genesis.eu>

It promotes the main benefits resulting from the project highlighting the objectives defined in the Grant Agreement:

The top-level objective of the ICE GENESIS project is to provide the European aeronautical industry with a validated new generation of 3D icing engineering tools (numerical simulation and test capabilities) addressing App C, App O and Snow conditions, for safe, efficient and cost-effective design and certification of future aircraft and rotorcraft.

- Obj#1: Improve and validate existing 3D numerical tools to predict ice accretion in App C, App O and Snow conditions.
- Obj#2: Upgrade and calibrate icing wind tunnels to allow reproduction of:
  - Supercooled Large Droplets (SLD) in FZDZ (Freezing drizzle) conditions.
  - Snow icing conditions
  - Additionally, to assess the potential of current icing wind tunnels to represent SLD in FZRA (Freezing rain) conditions.
- Obj#3: Build a large-scale experimental database on representative 3D configurations to be used as a solid reference (“ground truth”) for future numerical tools validation.

The web site explains the technical and administrative approach for the public at large to achieve the ambitious objectives introduced above. Furthermore, the website promotes expected results and achievements of the project.

The website will also be a portal to disseminate ICE GENESIS scientific publications, and to present the main activities and next steps to be taken.

The website contains information about the consortium, with detailed descriptions of the partners involved, the Advisory board members and foreseen collaboration within the Icing Community.

The main page has a simple and clearly arranged structure and shows the main thematic sections on the top as well as the main contents of these sections. These are created as links, this means that only the headlines are displayed and need to be clicked in order to navigate to the relevant information.

### 4.2 Target Audience

The ICE GENESIS public website is targeting a wide range of audiences, such as:

- Funding authorities, including the EC
- The general public
- The scientific/technical community
- Policy makers
- Aeronautics industry
- Industrial partners not involved in the project
- Press representatives/journalists

## 5 Structure and Content of the website

### 5.1 The homepage

The website is programmed in responsive web design (RWD). RWD is an approach to web design aimed at crafting sites to provide an optimal viewing and interaction experience – easy reading and navigation with a minimum of resizing, panning, and scrolling – across a wide range of devices from desktop computer monitors to mobile phones.

Either from search engines or when typing <https://www.airpoxy.eu> in the browser's address bar, the user will most of the time reach the website homepage, where an overview of all content available on the website is displayed.

The visitor will then be able to directly access any content of the website via the menu bar. On each page on the right side, four buttons give the user access to social networks related to AIRPOXY such as its dedicated page on Twitter, LinkedIn, Facebook and Google+.

An example image from the slider is shown in Figure 1 below.

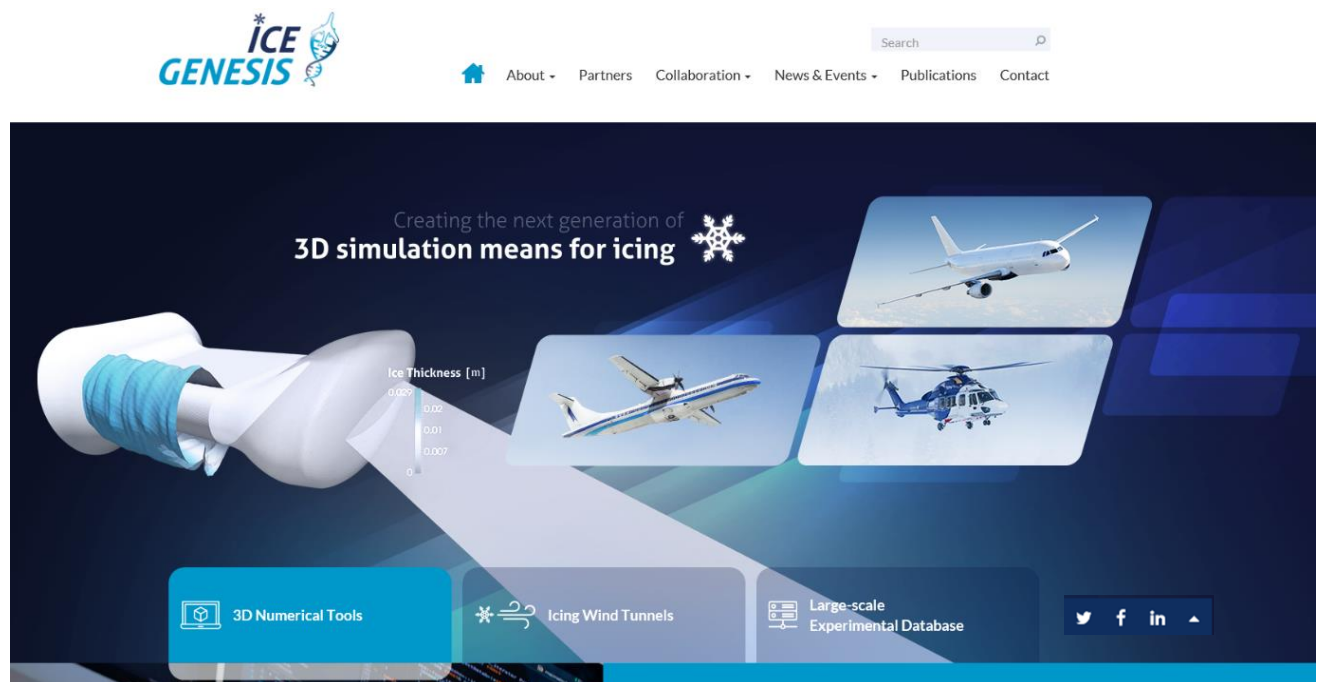


Figure 1: Banner and Menu Homepage of the ICE GENESIS Public website

The 3 objectives of the project are clearly highlighted, and you can access to information about one of the objectives by clicking on the title as show in Figure 2.

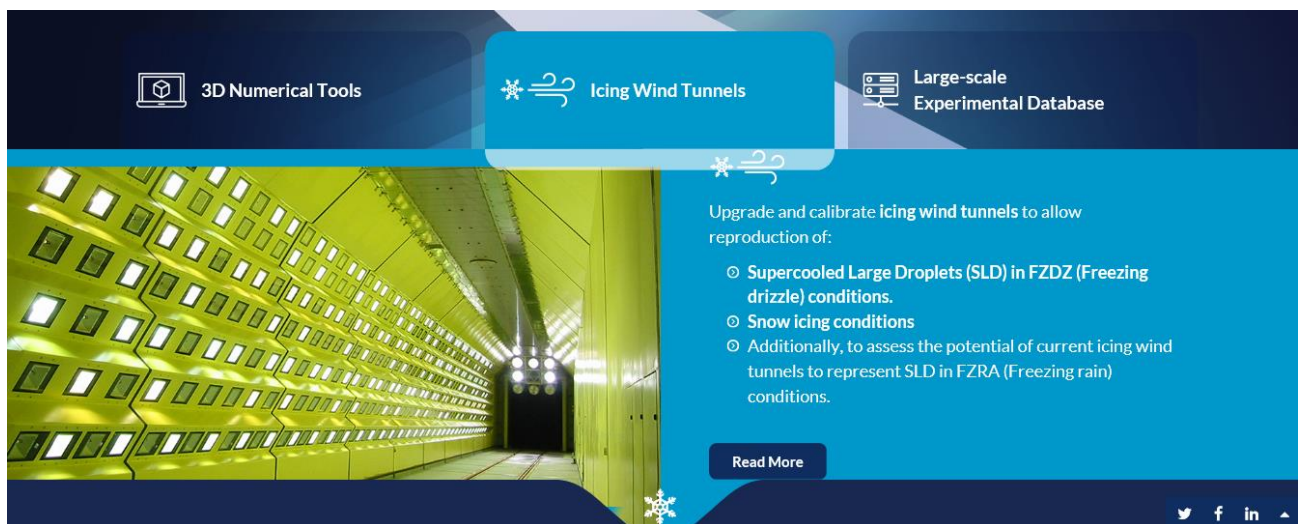


Figure 2: Access to Objectives description from the Homepage

By scrolling down, the visitor can also access directly to the following subsections, expected impact, latest news and event and project partners as shown in Figure 3.



Figure 3: Partners presentation on the Homepage

## 5.2 ICE GENESIS in a Nutshell

With a click on the first tab on the menu bar (left side of the homepage), the visitor will be able to access one of the following sub topics:

- About ICE GENESIS
- Expected Impact
- Approach
- Work Plan structure

### 5.2.1 About ICE GENESIS

This page provide general information on the project and related subpages can be found on the right side as shown in Figure 3. News & Event will also always be present on the right side of each page.



You are here: [ICE-Genesis](#) > [About](#) > [Objectives](#)

## ABOUT ICE GENESIS



### Highlight

The ICE GENESIS project will create the next generation of 3D simulation means for icing. It will allow weather hazards to be more precisely evaluated and properly mitigated thanks to adapted design or optimised protection through either active or passive means.

ICE GENESIS will also pave the way for 3D digital tools to be used in the future as acceptable means of compliance by the regulation authorities.

Overall, ICE GENESIS will contribute to flight safety, reduced certification costs and increased operability. The project counts on the international participation of the Russian Federation, Canada and Japan. The aviation authorities FAA and EASA are members of the Advisory Board.

Launched in January 2019, ICE GENESIS has a total budget of 21 million euros of which 11,9 million funding from European Union's Horizon 2020 research and innovation programme under grant agreement N° 824310.

### About

- Objectives
- Expected Impact
- Approach
- Work Plan Structure

### Latest News & Events

1 of 3

Jun. 28th



Figure 4: Screenshot from the Section "About ICE GENESIS"

## 5.2.2 Work plan structure

The ICE GENESIS work plan structure is presented in this section. A figure illustrating all the project's work packages (WPs) is presented in figure 4.

## Work Plan Structure



To achieve the project aims, the project is broken into 11 Work Packages, the first 2 WPs dealing with both exploitation/dissemination and project management and 9 WPs tackling the technical understanding and developing the technologies.

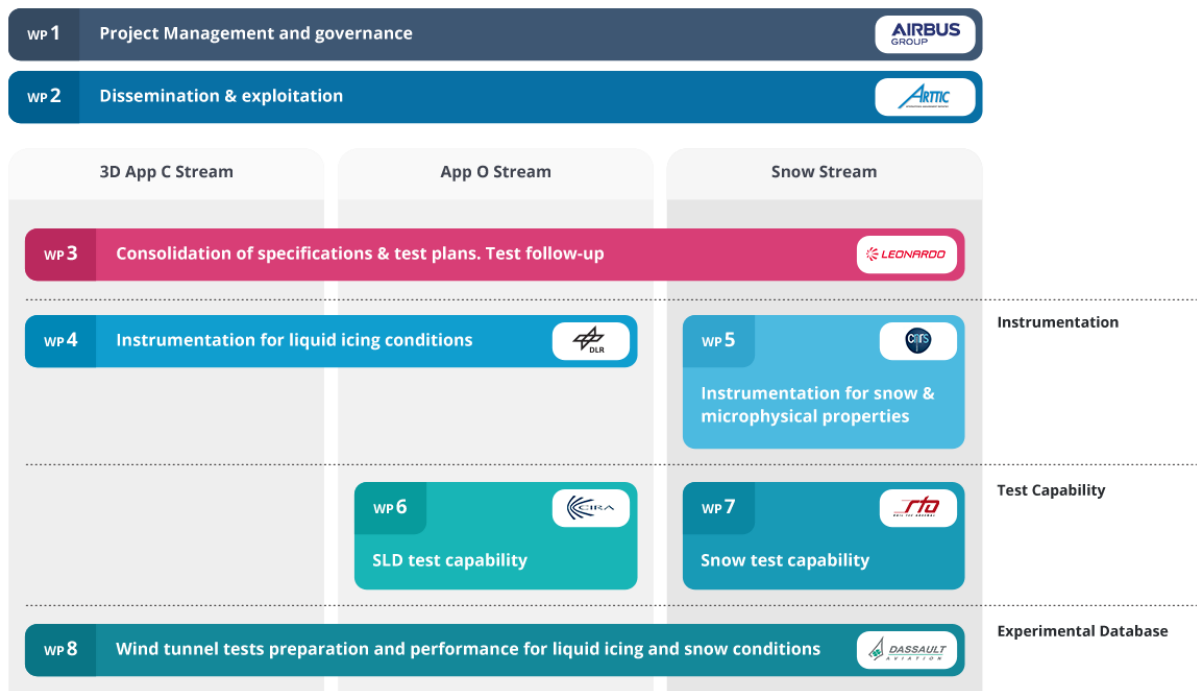




Figure 5: Screenshot N°1 from the Section “Work plan structure”

Each WP description includes the WP title, its objectives as well as the name and logo of the leading partner. The information is provided in a drop-down menu by clicking on each WP title. A screenshot of the work plan structure page is shown in Figure 5.

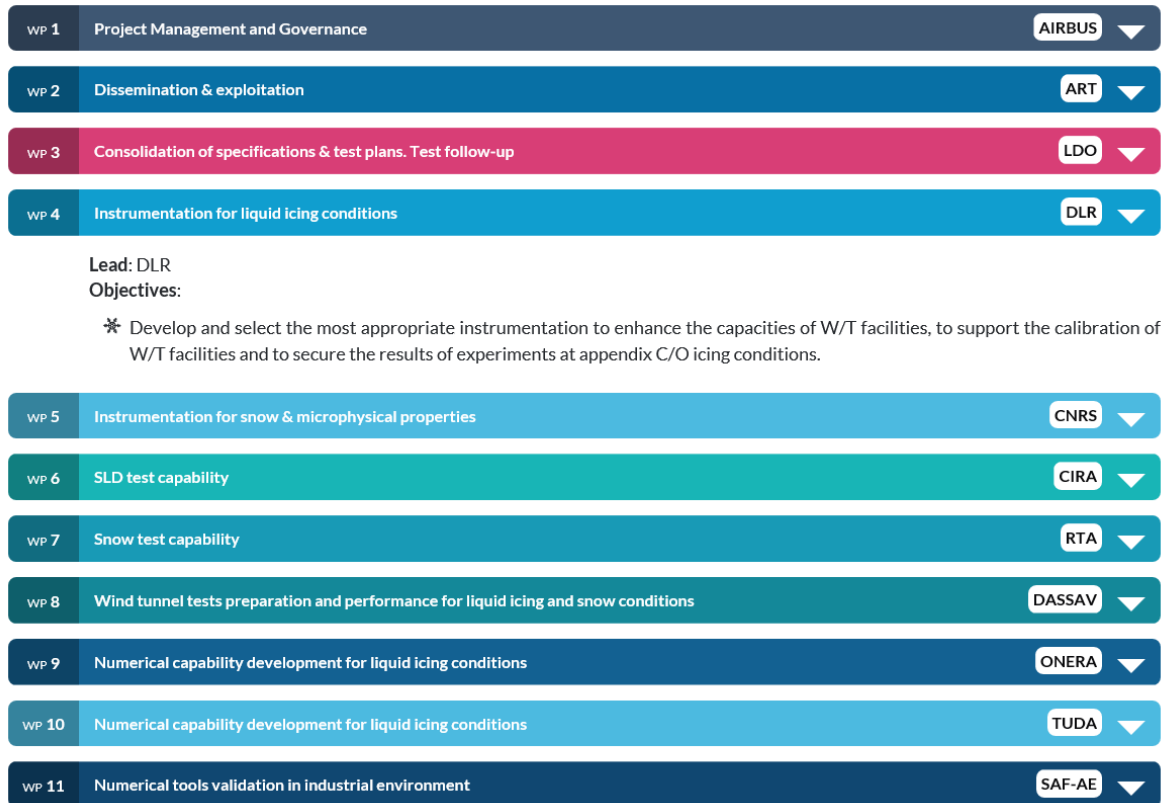


Figure 6: Screenshot N°2 from the Section “Work plan structure”

### 5.3 Partner

This page contains a map showing the location of the 36 ICE GENESIS partners.

A single click on the logo redirects the visitor to a description of the partner organisation and its role within the project.

## RAINBOW VISION

CLOSE 

RainbowVision is a new created company devoted to produce and commercialize original techniques in particle characterization issued from the optical department of UMR CNRS 6614/CORIA. Today RainbowVision has developed a unique optical technique to measure the droplet temperature and size distribution based on the analysis of the light scattered by moving droplet around the rainbow angle. As new Startup, RainbowVision is supported by Normandie Incubation. Head office and workshop are hosted by Normandie University, Rouen Campus.

### Role in the project

The key capabilities and competences of RainbowVision for this project are connected to a know-how to record and process the light scattered around the rainbow angle to measure the droplet size distribution and droplet temperature.

Under WP4:

- The device devoted to measurement from outside of the wind tunnel, called GRT-XL, must be optimized to measure the water droplet temperature
- The GRT-XL device will be used during measurement campaign in small scale wind tunnel.
- The device devoted to measurement inside wind tunnel, called GRT-Mini, will be optimized for water droplet measurement and protected from icing to be inserted in large wind tunnel

Under WP6:

- The GRT-Mini device will be used during measurement campaign in large scale wind tunnel.

Find out more at: <http://www.rainbow-visions.com/>

*Figure 7: Screenshot of a partner description*

## 5.4 Collaboration

This page describes the role of the External Advisory Board, namely the support in the specification definition and in the validation of the project and the foreseen collaboration with external partners and H2020 projects.

## 5.5 News & events

On this page information on past and upcoming ICE GENESIS related events can be found.

The News subsection of the public website is dedicated to project news and events.

In order to communicate about the project evolution over the 4 years duration, major achievements will be published as news items in the news section. For instance, news will be published when a significant step is taken, when a test campaign is carried out, as well as when results are obtained (subject to approval by the ICE GENESIS SC).

## 5.6 Publications

All ICE GENESIS publications will be listed on this page. It will contain the following sections

- Scientific publications – Short information on the publication, its authors and the abstract will be added.
- Public Deliverables
- Project Documentation – All ICE GENESIS-related public presentations, public materials and documents will be made available.
- Press and Other release

These pages will be continuously updated with the produced publications, public deliverables, presentations and other publications.

## 5.7 Contact

The contact form gives the visitors the possibility to contact a mailing list directed to ARTTIC and submit questions and requests. Upon reception ARTTIC will analyse the message and transfer it to the Coordinator and/or relevant partners in order to formulate a coherent reply.

## 5.8 Data protection

The complete website is GDPR conform, including the contact form, SSL and statistics (using Google analytics). Complete information about privacy policy and data use by ARTTIC are given in the dedicated pages (Imprint & disclaimer and Privacy policy).

## 6 Conclusions

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The ICE GENESIS public website will be fully operational in July. The pages will be updated on a frequent basis. Updates will become more and more frequent as the project progresses, so it should be consulted regularly to get access to new contents. The website will be an important means to disseminate information about the project and to attract all relevant stakeholders.