



2021 Program

# DESTINATION MOON WG

## DM WG 2021: TOWARDS EUROPEAN INTERSECTORIAL LUNAR MOMENTUM

ANRT's Destination Moon Work Group (DM WG) will pursue the direction it began two years ago to make 2021 a year of consolidated action and stance-taking. The September 2020 Workshops were a watershed for the group, stimulating

thinkings on a shared European lunar momentum. The upcoming of major events, such as EU presidency for France, French presidential elections, and economic recovery, make it the right time for the DM WG to produce guidance and

strategic action documents proposing decisions to promote the French and European lunar space industry. Activities in 2021 will target this objective.

# 2021 Program - Timetable

Project	Description	Timetable
<b>Valuing the <i>Destination Moon Workshops</i></b>	Compiled from the outputs of the September Workshops, making of a book aimed at state decision-makers and the general public.	March 2021
<b>Economic Models for the Moon</b>	In collaboration with Zenon Research, studies on analysis and prospective regarding economic lunar models.	13 January 2021 - April 2021
<b>Strategic note</b>	Strategic guidance note on lunar opportunities.	First trimester 2021
<b>White Book</b>	Transversal, 360-degree white paper put together by intersectoral focus groups comprising members of ANRT and outside experts.	February 2021 - June 2021
<b>Conferences</b>	Series of a dozen conferences on the theme "Which human being, for which project, will we send to the Moon?"	February 2021 - December 2021
<b>Ending Gala and Moon Event</b>	Grand closing event of the 2021 programme (Gala, Weekend Start-up, decision-making conferences, etc.)	February 2021 - November 2021

This schedule may evolve if the sanitary conditions of COVID-19 requires to. Some events may occur Jan/Feb 2022.

## Valuing the *Destination Moon Workshop*

The *Destination Moon Workshops* held on 3 and 4 September 2020 were a key moment for exchanging and thinking about the human moon momentum. The active participation of ANRT members at these workshops was crucial to their success. In collaboration with the design agency *Vraiment Vraiment* and Daniel Kaplan, the workshops led to the production of five texts, a logbook and a video. The output of these workshops will feature in a book to be sent out to public and economic deciders and then to a wider public. The publication is scheduled to come out in spring 2021, produced by ANRT, the *Destination Moon* contractors and a publishing team.

## Economic Models - With Zenon Research

In partnership with Zenon Research, presided by Jean Baptiste Rudelle, the DM WG will carry out a reverse prospective using economic models focusing on the human lunar momentum. The publication of the results of this group will send out a strong signal of financial viability likely to trigger interest in the opportunities opened up by a human presence on the Moon. The group's work will also feed into the white paper and the strategic note. DM WG members will be invited to join in Jean Baptiste Rudelle's brainstorming work. The first meeting will take place on 13 January 2021.

# White Book

To put together a *strategic, transversal, 360-degree* white paper, the WG OK is launching an expertise mission comprising six focus groups of about ten people, mostly ANRT members, along with selected outside experts. The thought process will mainly involve private and public stakeholders from outside the space industry covering a broad intersectoral range.

These six focus groups will meet several times from January 2021 to May 2021; firstly group by group, then in mixed groups to guarantee a cross-cutting approach and with the aim of writing up a coherent white paper covering upstream to downstream, from science to politics and fundamentals to application, including inspirations and economic and geopolitical challenges.

Intitulé	Mandat
Governance WG	This group will study the governance models of the human lunar momentum. It will tackle the question of the best institutional policy (public/private, public, cooperative, bilateral agreements, major industrial consortia).
Industrial and Economic WG	The work of this group will take inspiration from Zenon Research studies, which it may employ if necessary. The group will make a macro-economic study of economic models that could make the human lunar momentum sustainable.
Security and Defense WG	This group will study the protection policy for the scientific and technical potential of the nation regarding the Moon, along with questions of dual-use research, armament and lunar military cooperation..
Ethics and Society WG	This group will attempt to identify the "motivational whys" behind the human lunar ambition. It will also attempt to pinpoint the societal impacts and ethical questions at the heart of the human lunar momentum and how lunar projects should be communicated to public opinion to ensure that they are understood and wanted.
Ressources of the Moon WG	To avoid overlapping, the approach of this WG will be to work by <i>combining</i> catalogues of existing resources with their mapping, in order to mirror them with their potential scientific and/or industrial exploitation.
Lunar Habitat and Life on the Moon WG	This group will study the minimum conditions for making life endurable on the Moon for about ten humans present on site. This WG will also catalogue the responses to these living conditions, using either existing or prospective techniques.





## Strategic Note

The different ANRT WGs regularly produce strategic notes resulting from their public/private intersectoral work on the various topics that they study. In 2021, the DM WG has a target of producing a strategic note for spring, based on projects pursued in 2019 and 2020. The note will constitute a recommendation tool acting as the voice of ANRT members.

## Cycle de conférences

*"Which human being, for which project, will we send to the Moon?"* This is the question that will be tackled from February 2021 in a series of conferences involving French, European and international experts. These conferences will aim to trigger exchanges between DM WG members and welcome new members joining us for 2021. With presentations by one or two speakers, the conferences will serve to help members consolidate their thoughts on the future of the human lunar momentum. The conferences will be held either remotely or face-to-face, depending on the health crisis situation. The list of topics will be available soon.

## Moon Event

The 2021 agenda is set to be highly productive. The year will be rounded off with a flagship event gathering several initiatives. In partnership with other organizations, the event will run over several days and include a start-up weekend, speeches by very high-level decision-makers, perhaps an artistic exhibition, a presentation of the year's work, and a lunar gala. To organize this ambitious, logistically complex event, the DM WG will set up a steering committee and work jointly with other organizations.

