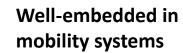# Power Up: making electric Regional Air Mobility a reality and a success

New efficient, low-carbon aircraft technology

+

New airline business models & networks

+

New airport proposition & customized operations

+

Favourable operating context

Well-embedded in mobility systems

=

Power Up

Power Up is inspired by a clear view on benefits, challenges and required steps to capture eRAM's full potential

Rationale for launching Power Up

- **eRAM will bring significant benefits to society …**
  - For regions
  - For travellers
  - For surrounding communities
  - For the mobility system as a whole

- **…however, growing low-carbon short-haul aviation with small aircraft is not a walk in the park…**
  - Current airport proposition and processes
  - Current aviation policies and regulations
  - Awareness of benefits and desirability of eRAM

- **…therefore, airlines, OEMs and airports and other stakeholders need to work together to define and implement eRAM as a new mobility service**

Power Up objectives

To capture eRAM's potential Power Up aims to:

- Develop a **distinctive AND harmonized airport proposition** for eRAM services

- Ensure airports are **fully operationally ready** with **standardization of processes and facilities** offered at each of the airports

- **Secure favorable policy and regulatory conditions** in cooperation with other electric aviation initiatives

- Work together to **conduct joint tests or experiments** such as demonstrator flights with synergies between partners and showcasing progress to the public

Power Up

Power Up-partners jointly cover the full breadth and depth of expertise relevant for the development of eRAM

3 eCTOL OEMs

VOLTAERO

VÆRIDION

MAEVE
AEROSPACE

4 airlines

KLM

LUCY

ASL GROUP

EVIA AERO

5 regional airports
(supported by an airport group)

EindhovenAirport

GRONINGEN AIRPORT EELDE

Rotterdam The Hague Airport

MAASTRICHT AACHEN AIRPORT

Lelystad Airport

Schiphol Group

1 rail operator

1 aerospace research organization

nlr

3 consultancy organizations

M3

NACO
a company of Royal HaskoningDHV

Deloitte.

Power Up

Synthesis of eRAM's current status: encouraging developments but still several important challenges to be addressed

High-level trends with regard to global/European eCTOL/eRAM

Encouraging developments

- Value of eCTOL (vs. eVTOL) better understood and substantiated

- Increasing cost, more operational restrictions and sustainability-mindset of travellers makes the business case for eRAM stronger and stronger

- Continued technology progress with new start-ups and developments of more regional ecosystems

- Regional governments start to become more proactive in supporting eAviation (incl. eRAM)

Key challenges (in NL/European context)

- eRAM as a new mobility not yet incorporated in current transport/mobility policies

- Movement-restrictions at larger airports could become major roadblock while readiness of smaller regional airports is uncertain due to financing limitations

- Relevance/benefits of flying short-haul (with electric aircraft) not well understood by key stakeholders and general public. No tangible progress to show (yet)

Power Up

Working groups are set up with the aim of preparing and implementing concrete actions to accommodate and stimulate eRAM

Power Up working group	Operational readiness	eRAM passenger and airline proposition	eRAM policy and regulatory context	Testing and experimenting eRAM operations
Objectives	• Ensure all Power Up airports are fully ready to accommodate eCTOL aircraft by 2026 • Ensure consistency/ harmonize operational processes and airside facilities for eRAM	• Define and implement an eRAM-specific proposition for travellers and operators at each airport with a consistent set of service features	• Seek alignment among Power Up partners on required and desired policy and regulatory changes to make eRAM a success and work with other initiatives in securing these changes	• Organise tests and experiments with synergies when organized through Power Up to benefit from joint learning opportunities and showcasing progress
Targets for the next 6 months	• 'Blueprint' of minimum operational facilities and procedures to be in place by 2026	• Agreement on key aligned dimensions of the 'eRAM'-airport proposition	• Alignment on what policy and regulatory changes to be secured including priorities	• Secure demonstrator flights for 2024
	• Have a gap-analysis ready for each airport with regard to what needs to be done to secure agreed common features		• Exchanged on insights in preparing for eRAM with similar initiatives abroad	

Power Up