International Centre for Aviation Innovation (ICAI)

23 October 2023

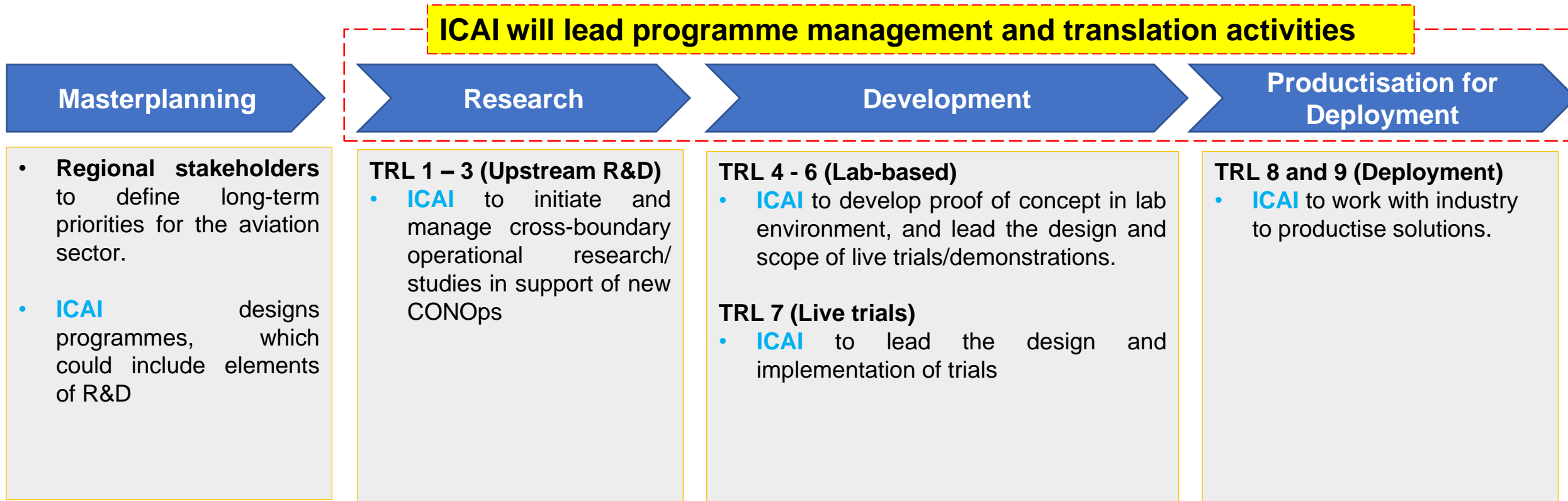# The aviation sector needs to innovate to overcome challenges

- Digital/AI advancements

- Changing passenger expectations

- New airspace entrants and capacity constraints

- Green aviation

ICAI aims to foster and accelerate aviation innovation for the region

- **International in orientation** – solutions that can scale.

- **Covers all aspects of aviation**, including ATM, unmanned systems integration, sustainability, smart airport.

- **Foster partnerships** amongst governments, industry and research institutes.

Key activities of ICAI

ICAI will lead programme management and translation activities

Masterplanning	Research	Development	Productisation for Deployment

Masterplanning
- **Regional stakeholders** to define long-term priorities for the aviation sector.
- **ICAI** designs programmes, which could include elements of R&D

Research

TRL 1 – 3 (Upstream R&D)
- **ICAI** to initiate and manage cross-boundary operational research/ studies in support of new CONOps

Development

TRL 4 - 6 (Lab-based)
- **ICAI** to develop proof of concept in lab environment, and lead the design and scope of live trials/demonstrations.

TRL 7 (Live trials)
- **ICAI** to lead the design and implementation of trials

Productisation for Deployment

TRL 8 and 9 (Deployment)
- **ICAI** to work with industry to productise solutions.

Concept under development:
Regional Experimentation Platform (REP)

- A virtual and distributed platform that allows regional users to share a common airspace situational awareness, e.g., weather data and aircraft intended flight routes.

- REP allows partners to co-develop applications and experiment on new concept of operations.

- The development of REP is led by ICAI.

Innovating Together for Aviation

- **Connect** – the region has much to offer in terms of talent to address our aviation challenges.

- **Share** – problem statements, results and information, best practices

- **Participate** – co-develop capabilities and solutions

For further enquiries, please contact us at

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Thank You