



R2O IN  
AVIATION  
WEATHER

A UNIVERSITY  
PERSPECTIVE

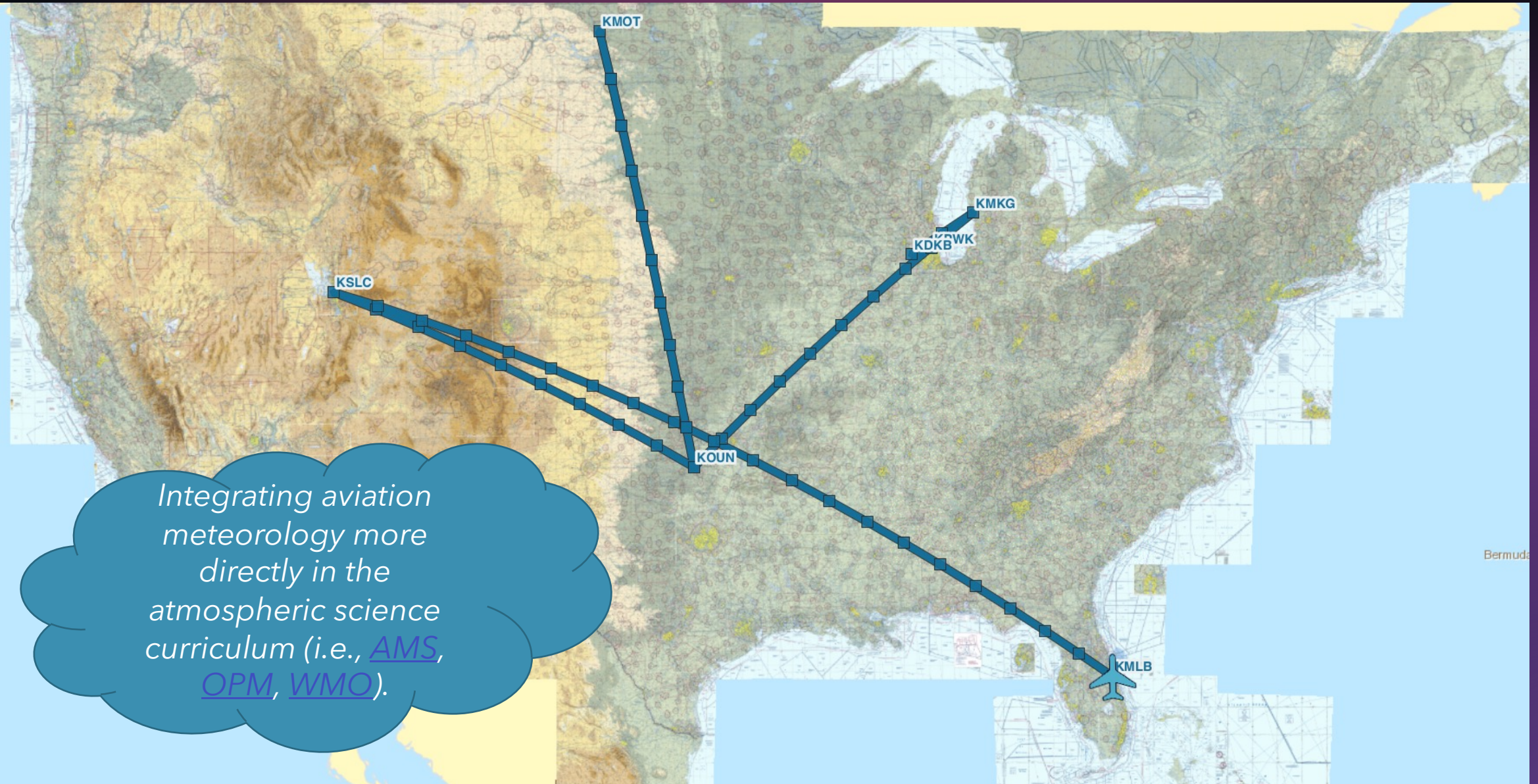
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FPAW SPRING 2023

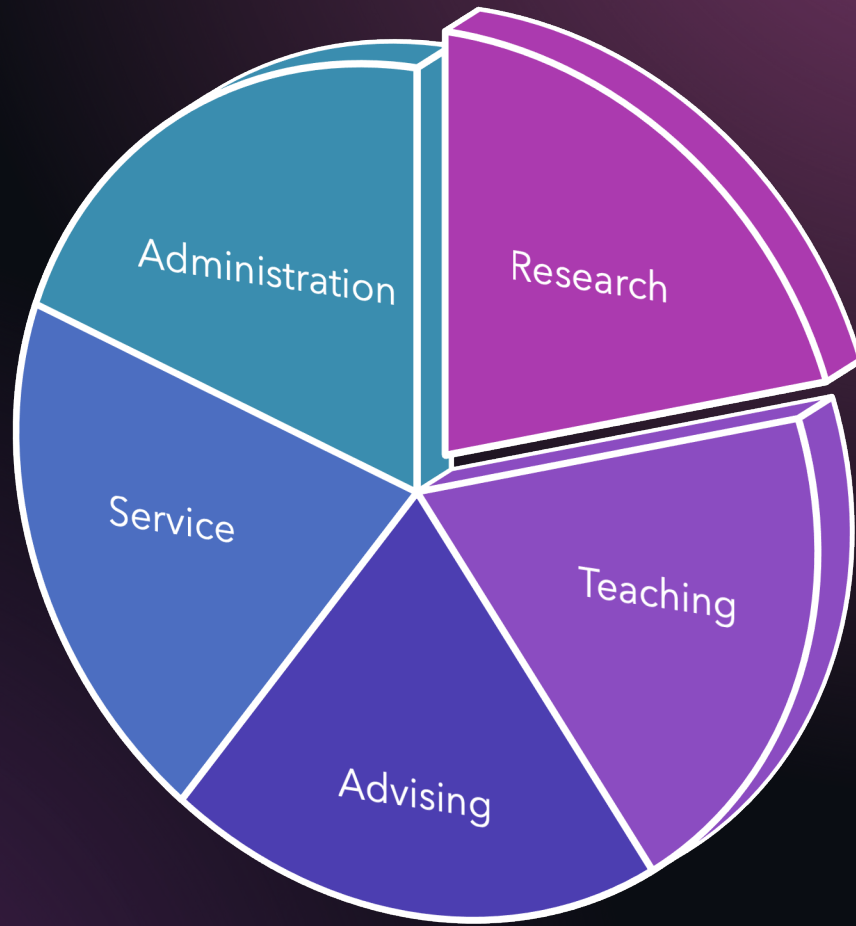


# My "Flight Path"





# Faculty Workload & Research



## *Faculty Professional Track*

- *Teaching Track*
- *Tenure Track*
- *Research Track*

## *Reduced Teaching Loads*

- *Course “Buyouts”*
- *Rank*
- *Tenured Position*

# Research and Development (NSF)

Basic

*Basic*

• 2.2

A researcher is studying how artificial intelligence can identify features in images.

without

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Applied

*Applied*

• 2.2

A researcher is studying the identification of cloud types with a set of artificial intelligence tools.

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Experimental  
Development

*Experi*

• 2.3

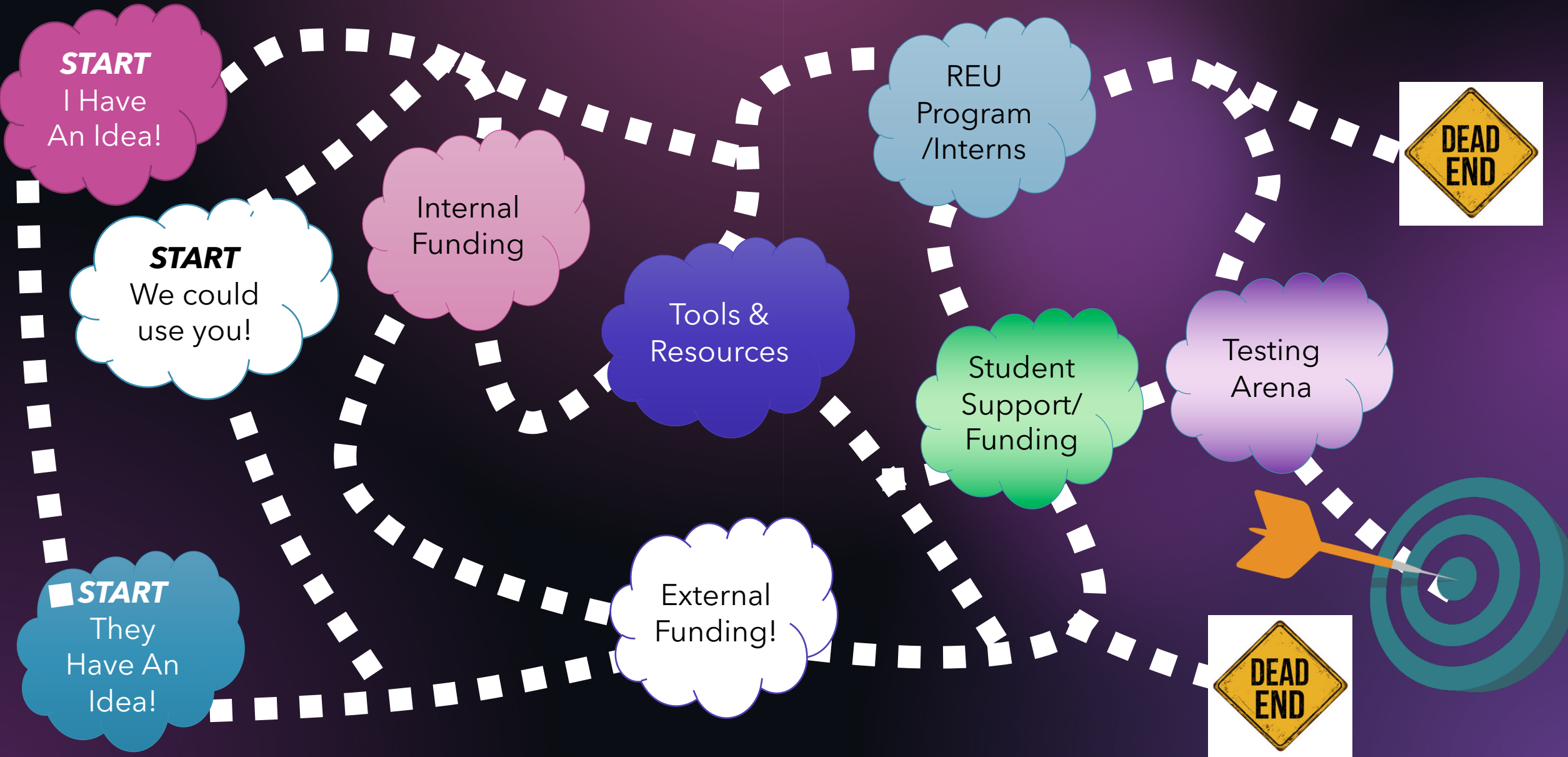
A researcher is developing a prototype tool to identify important aviation cloud types from available imagery using newly developed AI algorithms.

improva

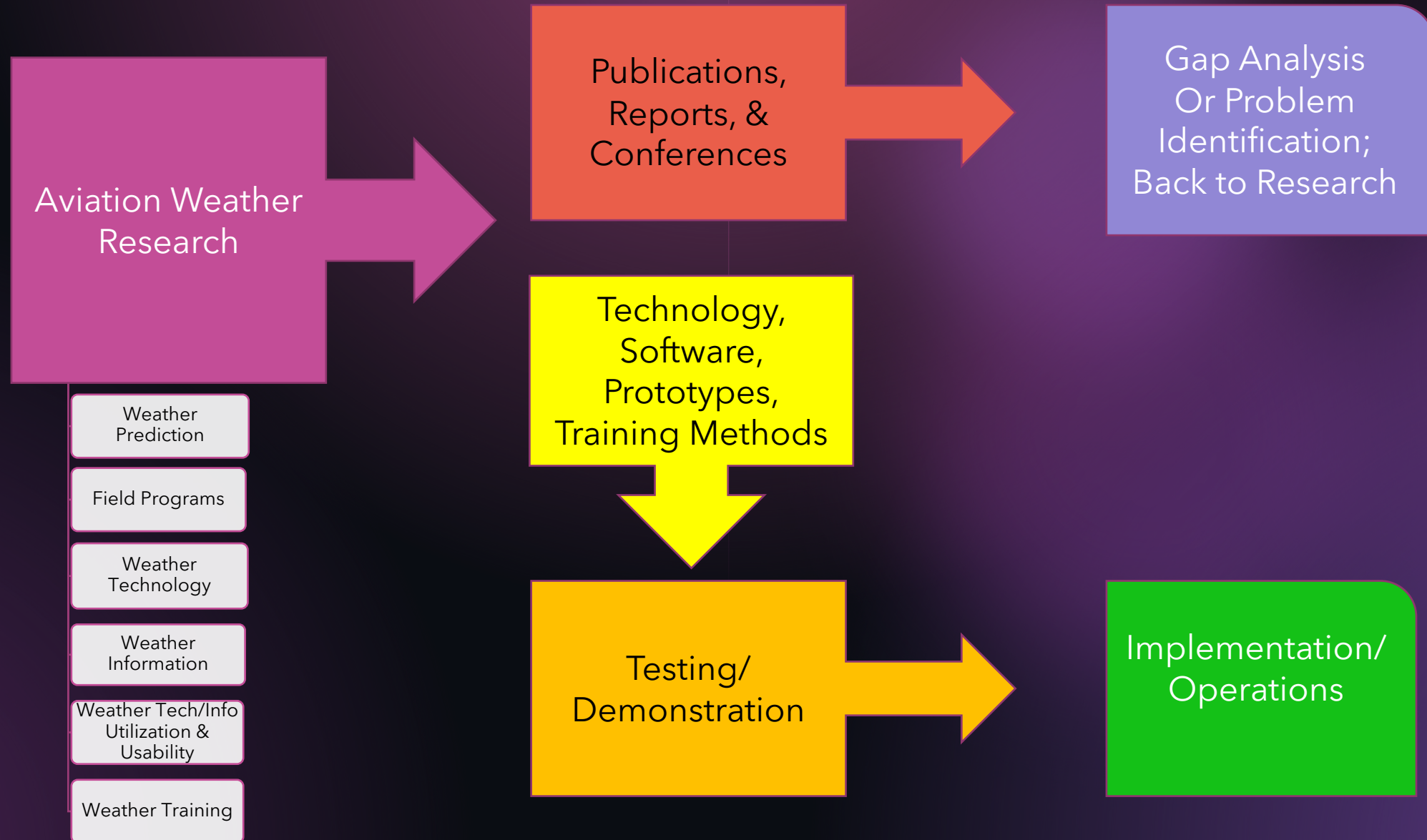
to



# Research Pathways



# Aviation Weather Research To ?

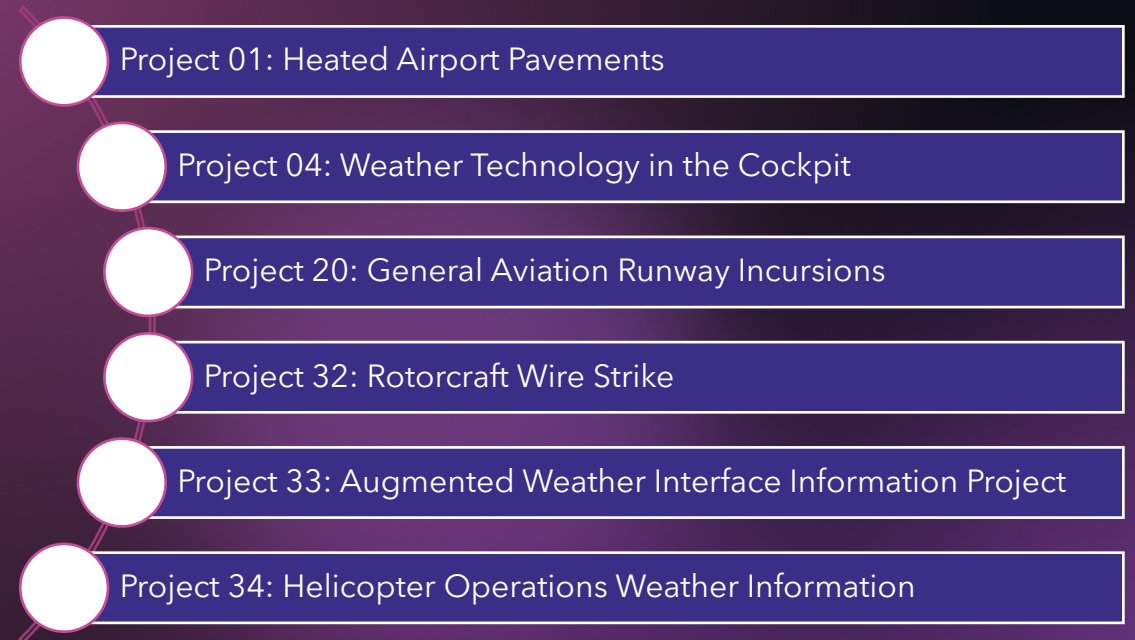




# FAA PEGASAS & R20

The Partnership to Enhance General Aviation Safety, Accessibility and Sustainability (PEGASAS) is a Federal Aviation Administration (FAA) Center of Excellence for General Aviation.

The mission of PEGASAS is to enhance general aviation safety, accessibility, and sustainability by partnering the FAA with a national network of world-class researchers, educators and industry leaders.



# Concluding Thoughts

- Earlier career engagement with aviation meteorology
- Academics typically respond to research priorities driven elsewhere
  - Academics can be involved in research priorities development
  - Academics may pursue ideas independent of a structured process
- Research to operations
  - Follow-up projects may be better suited to operations
  - Project time/resources dedicated to this phase
  - Shepherding the process
    - Project managers (and above) and PIs
    - Involvement of end-users



Try your hand at this fun (and anonymous) survey on representativeness of weather flight rules categories!