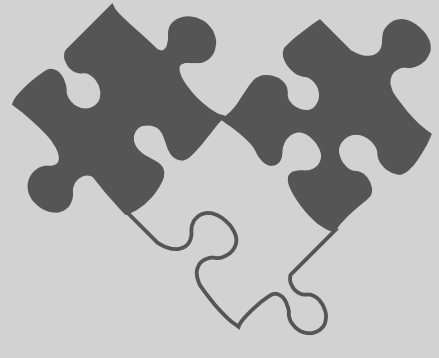


# Solution for remotely automated HIRF tests, using an optical link

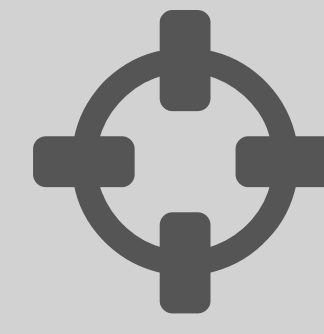
## BACKGROUND



A new aircraft development includes HIRF\* tests for its certification campaign.

Currently, the HIRF test setup has limitations:

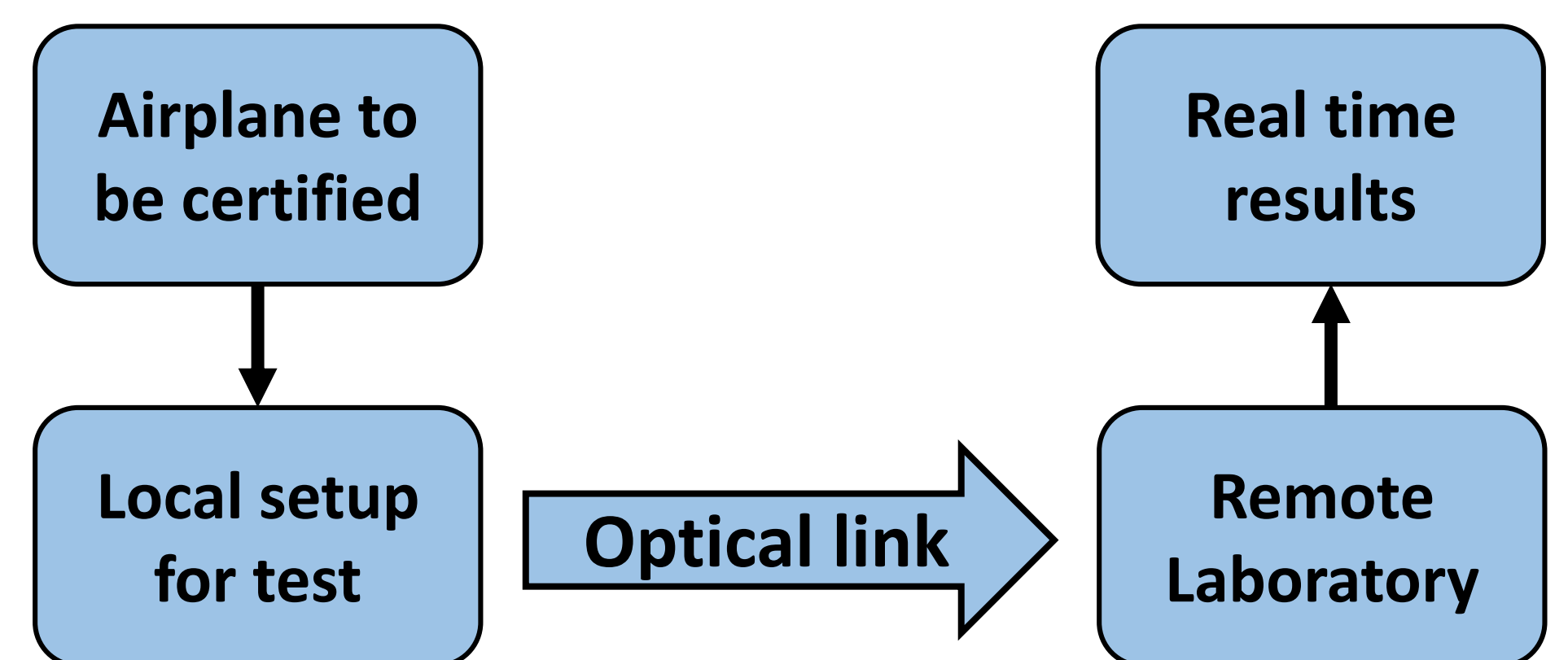
- Time demanding - up to 2 months;
- Use of sensible, expensive equipment outdoor;



## GOALS

The main goal of the project is to develop a fully automated remote station for HIRF test, achieving:

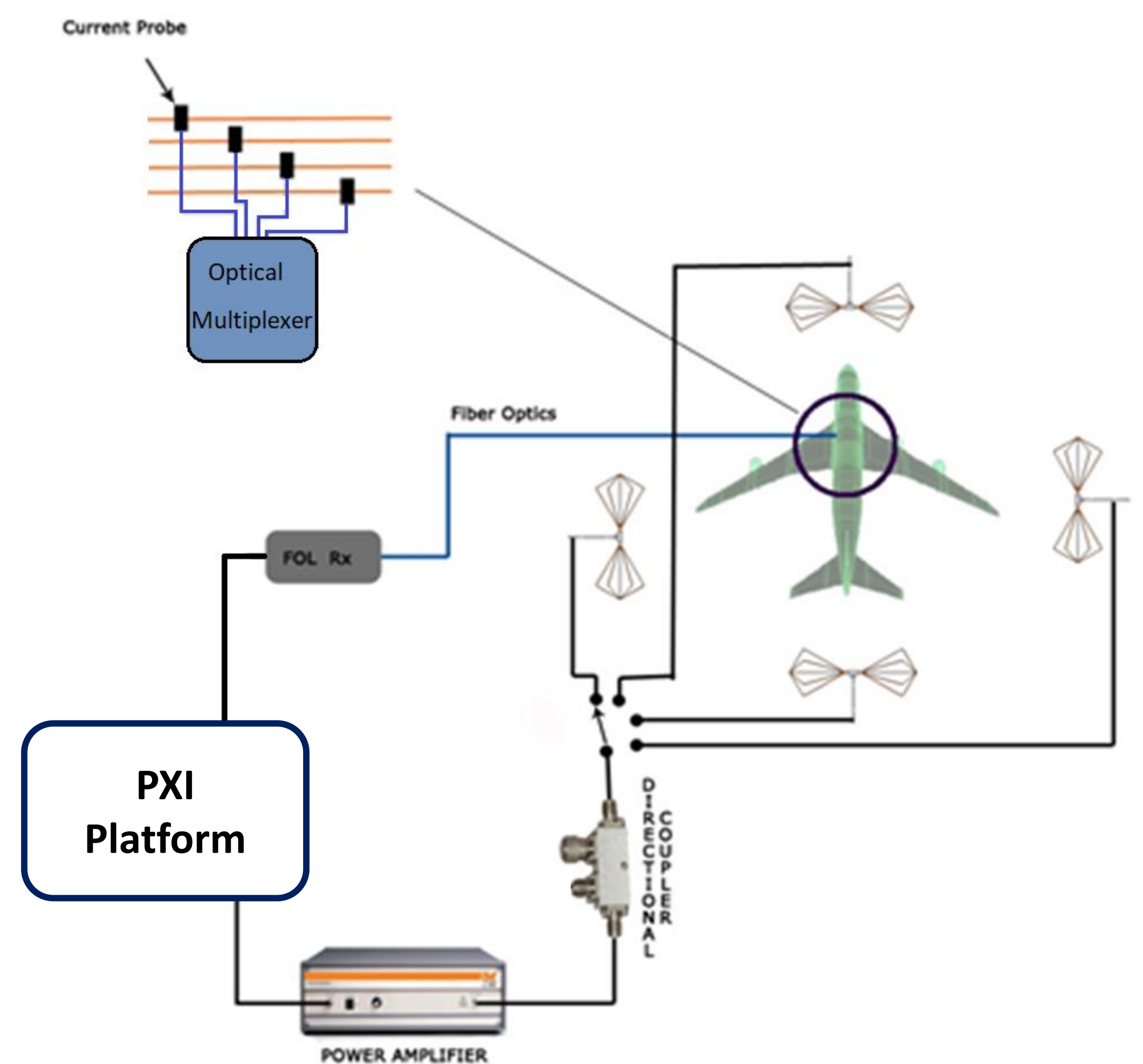
- Sensible equipment protection during outdoor tests
- To reduce HIRF test setup time



## APPROACH



- To develop means of increase the distance between the test site and the measurement instruments.
- The measurement instruments could be located at a remote, indoor laboratory.
  - To develop an optical link in the band from 10 kHz to 18 GHz.
  - To automate testing and data acquisition with LABVIEW and PXI platform.
  - To develop a current probe with an optical connection (100 kHz to 400 MHz).



\* HIRF – High Intensity Radiated Fields