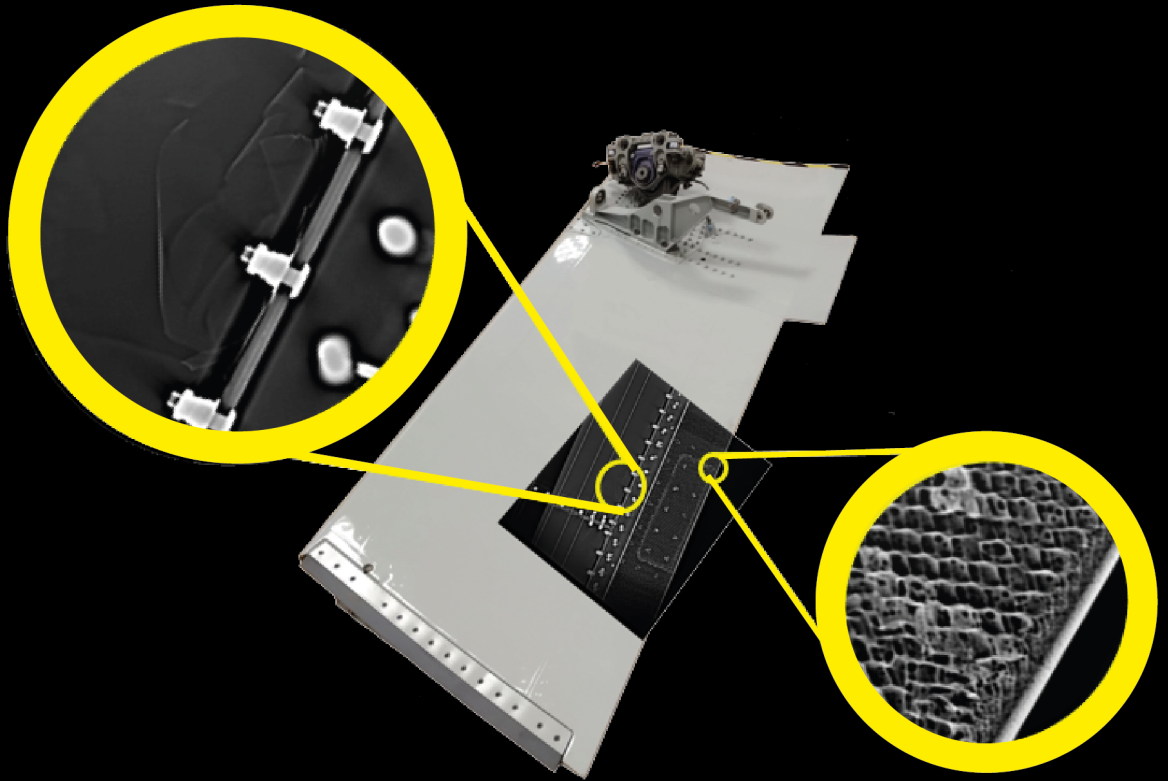




AdaptixNDE

FOR COMPOSITE AND METAL ADDITIVE INSPECTION

Deployable 3D X-ray in minutes



*Awarded prestigious
Innovation grants,
supported by
industry leaders*

AIRBUS

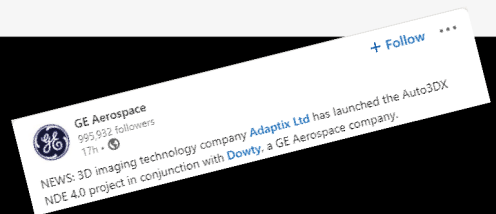
DOWTY

a GE Aerospace company



GKN AEROSPACE

SPIRIT
AEROSYSTEMS





Composite Inspection

Adaptix¹ Digital Tomosynthesis technology allows:

- 3D X-ray for fast routine use
- Unique dry-preform inspection
 - Finding faults/rework -65% sooner in process
 - Reduces material waste and environmental impact
 - Reduces costs
 - Increases operating efficiency and effectiveness

Uniquely deployable 3D X-ray for maintenance and manufacturing
 Close operations/ for safe open operation at 5 meters away
 RSD schedule crashing for new composite manufacturing methods and materials
 Adoptable solutions to suit
 Digital Twins and NDE4.0 facilitation



Metal Additive Manufacture

Inspects Metal Additive parts at the rate of manufacture

Adaptix allows Metal Additive inspection
 After manufacture, place the part in our system
 See powder in the ducts, porosity and voids in
 < 3 minutes of manufacture
 Or visualise that it's fit-for-purpose, with more data
 and more confidence



System features

CE-marked products evolving towards NOE 4.0 and DigitalTwins afterwinning "fiercely competitive" aerospace grants with multiple aerospace prime supporters.



Imaging detector for 3D X-ray capture:

- Large active area of 36 x 43 cm
- 140 micron resolution
- Subject height of up to 15 cm

X-ray source operating at 10 watts:

- Attaining comparative results to CT at a much lower power
- 50 -70 kV range
- Additional options of
 - 35 -50 kV source
 - 90 -140 kV source



CAMERA:

Camera to record part images for reference.

CLOUD DEPLOYED DATA:

-a. All images uploaded to a cloud hosted site for analysis
 - Globally and instantly accessible by multiple employees, with full functionality on their phone
 - Sharable with customers for enhanced products, services and differentiation
 - Or this can be air-gapped and a simple stack of TIFF files can be safely exported for use in existing cyber-systems



Image acquisition and reconstruction in typically 2 minutes

LOW POWER:

Low, single phase power, means:

- Operating an open system safely at 5 meters
- Or with doors closed to image smaller parts, work immediately adjacent
- Low operating cost
- Easy use and deployability, plugging straight into single phase mains sockets
- Stays cool, so no need for cooling or air con, like with CT systems