TransDIm ARTES Business Applications & Space Solutions (1/1) BASS programme accelerates adaptation of space technology in mobile 3D X-ray scanners - Saving time and cost in healthcare by improving patient assessment outside of hospitals Project overview • 3D CT scans provide much clearer information than 2D X-rays, but CT is expensive, immobile and has much higher * The image quality is superb and makes dental radiography in

space missions, Adaptix developed a **mobile, low-dose,** affordable 3D X-ray scanner

THEMATIC AREA

Utilising miniaturisation of electron emitters designed for

"The image quality is superb and makes dental radiography in particular, so much easier and faster. I suspect it will make my existing machine redundant."

Dr. Michael E. – UK Vet

3 GOOD HEALTH AND WELL-BEING

-4/0

9 INDUSTRY, INNOVAT

Benefits

radiation doses

- Affordability, mobility and simplicity make the scanner ideal for use in many environments e.g. ambulances, ski resorts, care homes and even space, reducing requirement for transport to hospitals
- Improved detail with similar radiation dose compared to 2D X-ray for assessment of fractures, with dose 10-45x lower than equivalent CT scans
- Technology adapted for use in **NDT and veterinary use cases**, with proposed use in osteoporosis assessment and monitoring bone aging in astronauts

HEALTH



→ THE EUROPEAN SPACE AGENCY