



Adaptix

Mobile three-D radiology: The technology of Adaptix

Gil Travish
CSO
Adaptix

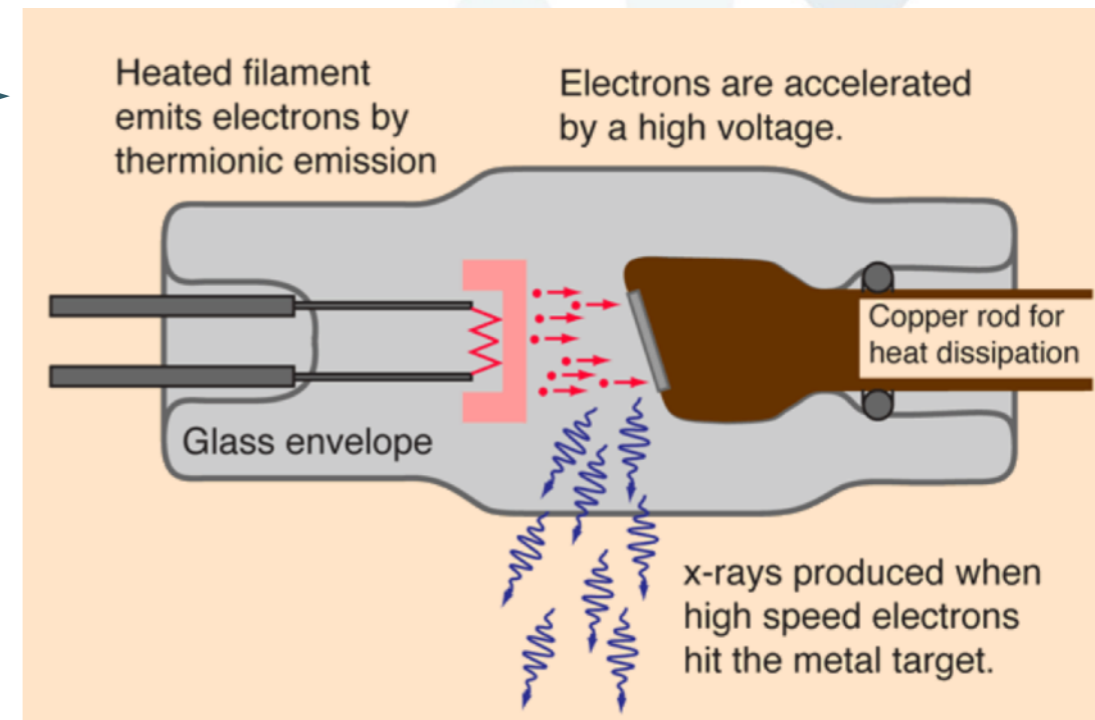
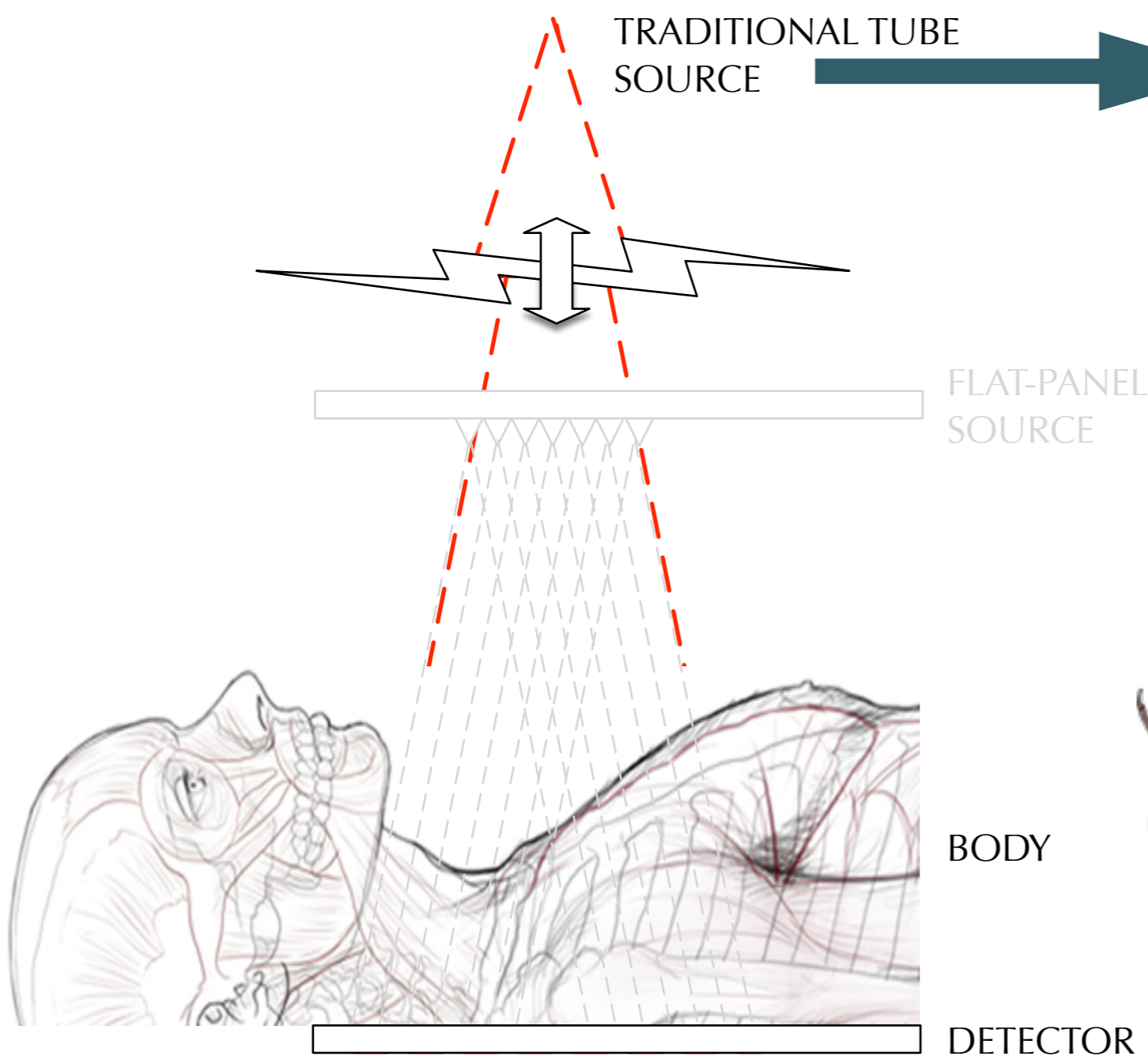
**innovation
exchange** | NOORDWIJK
8 November
2016

When space meets health

www.adaptiximaging.com

Contents are Proprietary & Confidential | ©2015 Radius Heath & Adaptix

All traditional planar radiology is performed with a single point source



There is a void between planar (2D) and CT (3D) radiology



**Portable
Planar X-ray**

3D Capability

NO

Approximate Size

Filing Cabinet

Typical Dose (CXR)

0.10 mSv

Price to Customer

\$170,000

Cost per scan

\$35

Typical Weight

200kg



**128 slice Computed
Tomography (CT)**

YES

Small Car

1.5-8.00 mSv

\$1,100,000

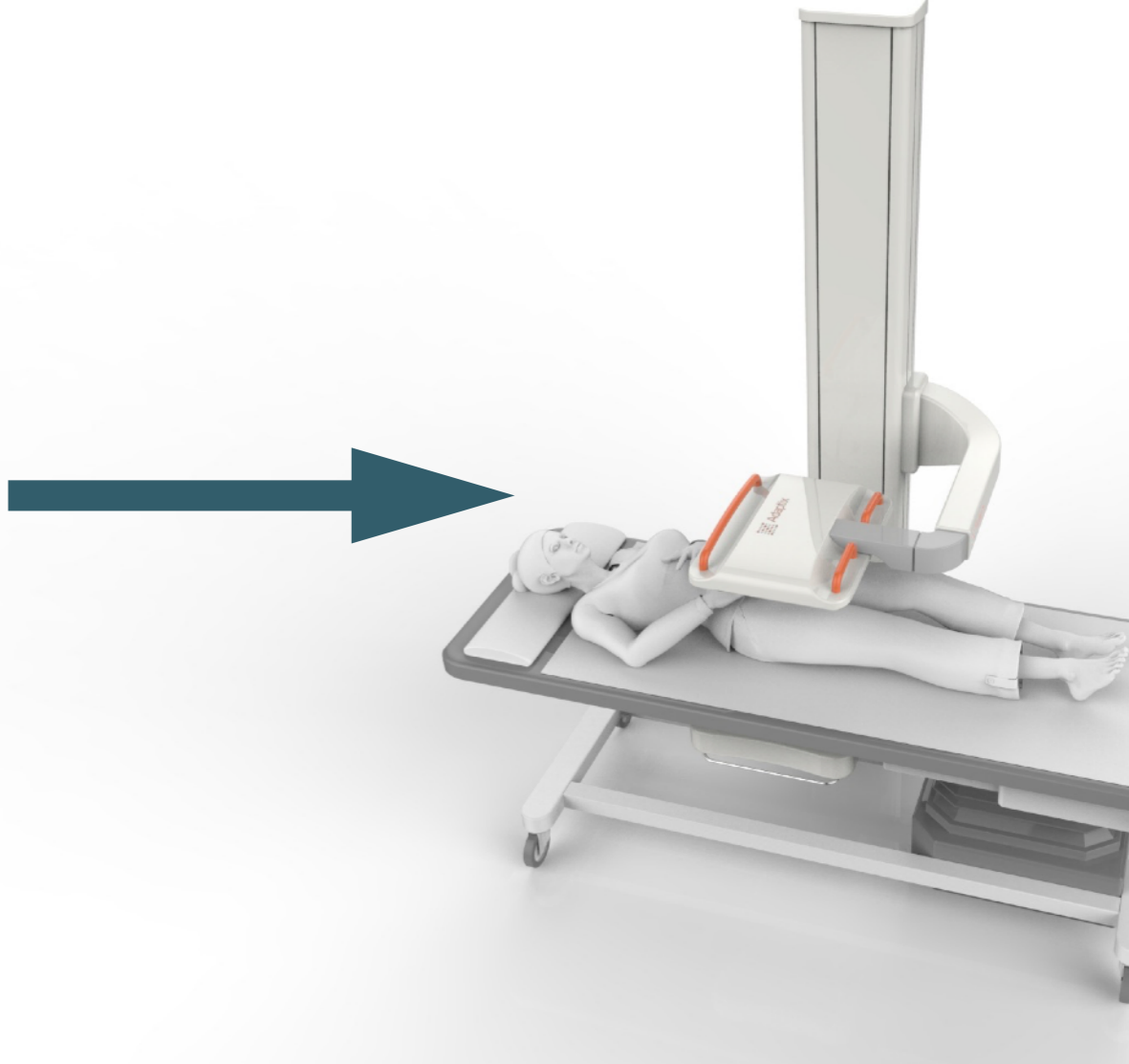
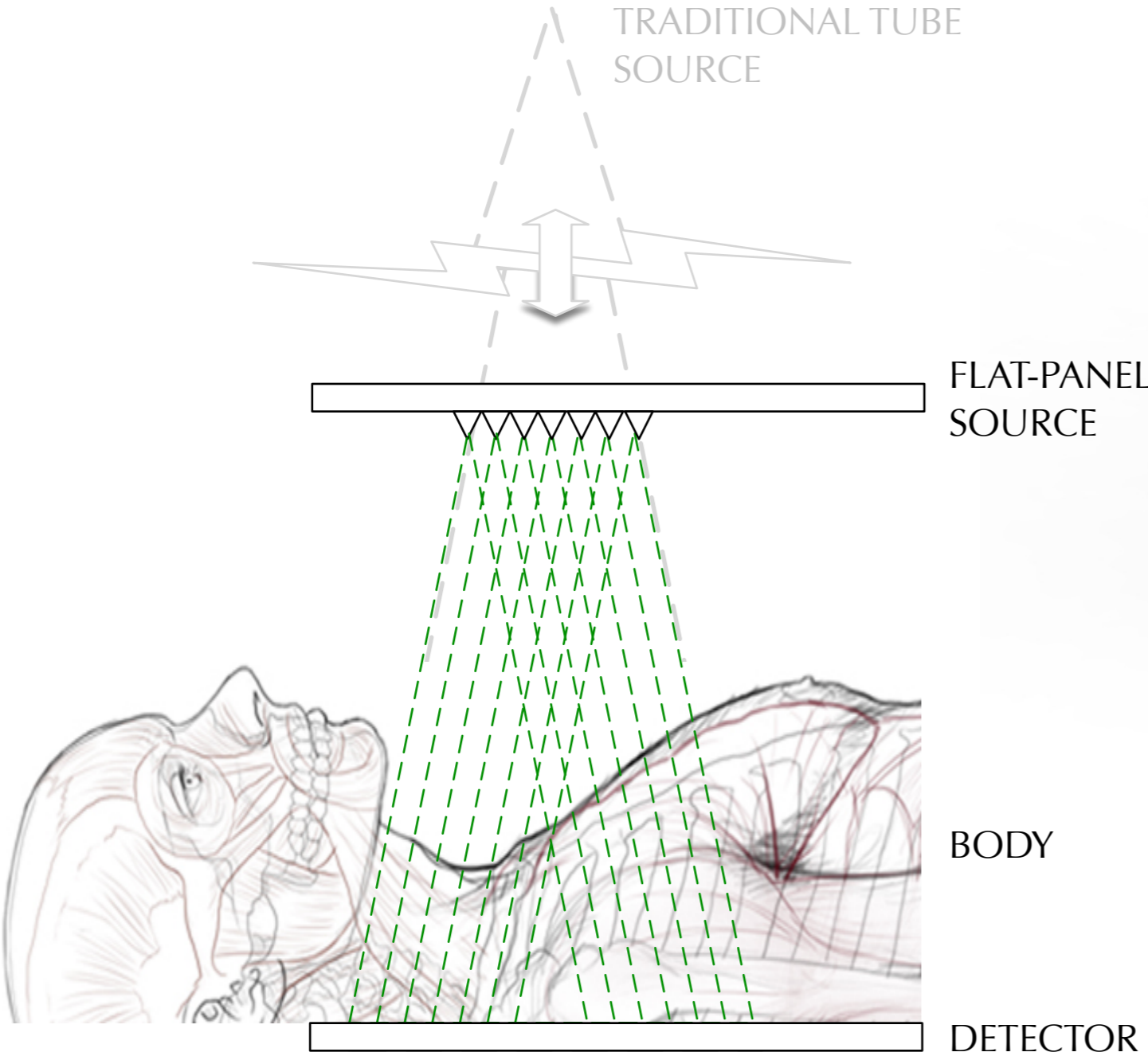
\$255 (G0279)

2,000kg

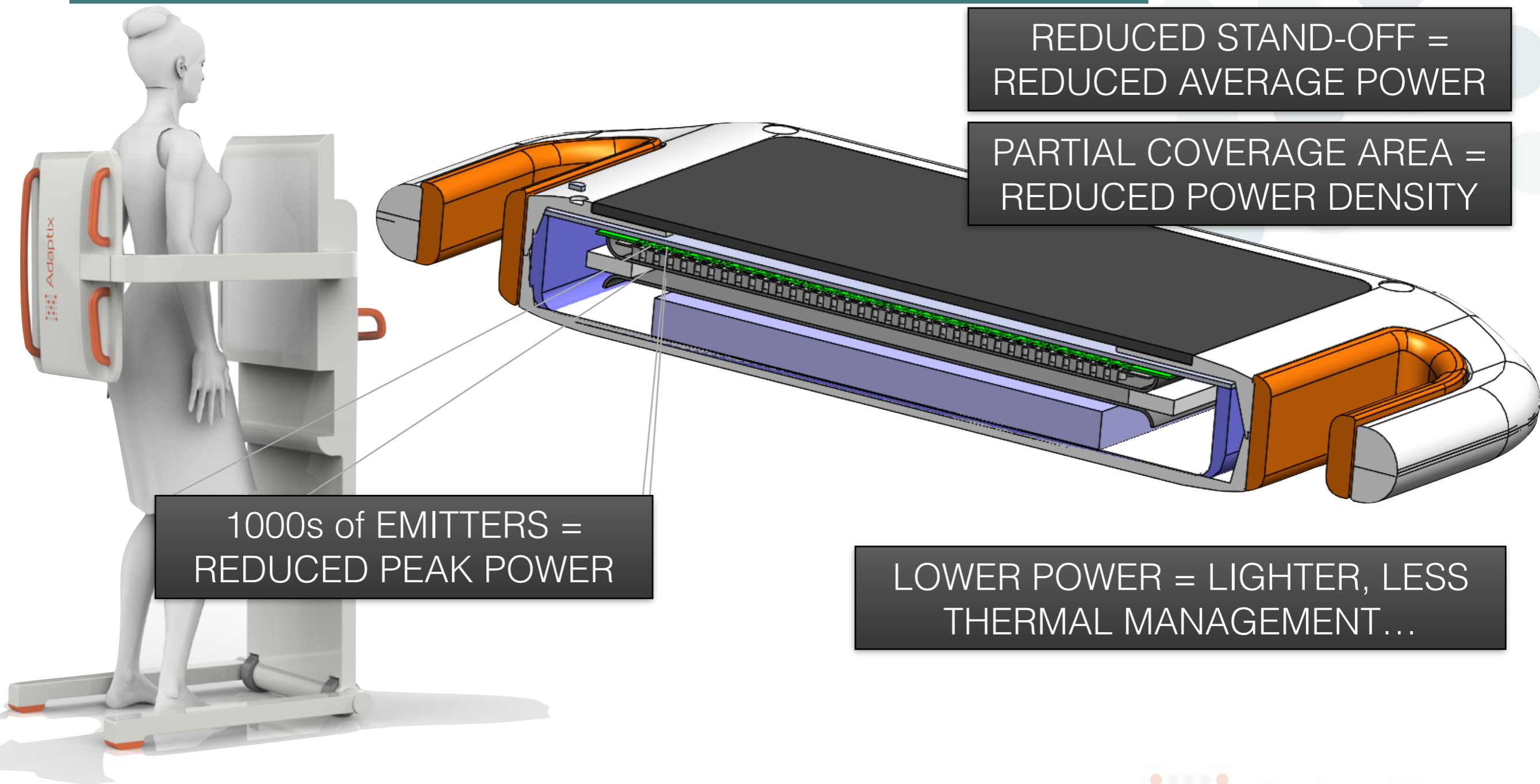


TOSHIBA

Distributed sources allow for shorter stand-off distances and **tomosynthesis**



We are commercializing the first distributed array x-ray generator: a flat panel source



REDUCED STAND-OFF =
REDUCED AVERAGE POWER

PARTIAL COVERAGE AREA =
REDUCED POWER DENSITY

1000s of EMITTERS =
REDUCED PEAK POWER

LOWER POWER = LIGHTER, LESS
THERMAL MANAGEMENT...

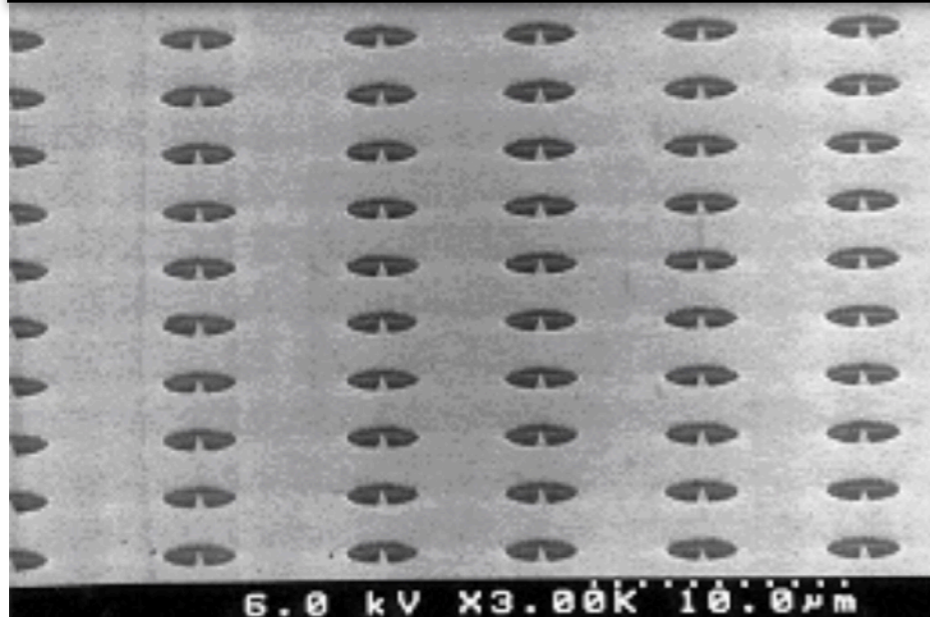
Our unique selling proposition is low-dose low-cost portable 3D.



	Portable Planar X-ray	Planar Array Digital Tomosynthesis	128 slice Computed Tomography (CT)
3D Capability	NO	YES	YES
Approximate Size	Filing Cabinet	Carry-on bag	Small Car
Typical Dose (CXR)	0.10 mSv	<0.13 mSv	1.5-8.00 mSv
Price to Customer	\$170,000	\$100,000	\$1,100,000
Cost per scan	\$35	<\$35	\$255 (G0279)
Typical Weight	200kg	20kg	2,000kg

Our space-tech heritage comes from charge neutralisers and fuel nozzles

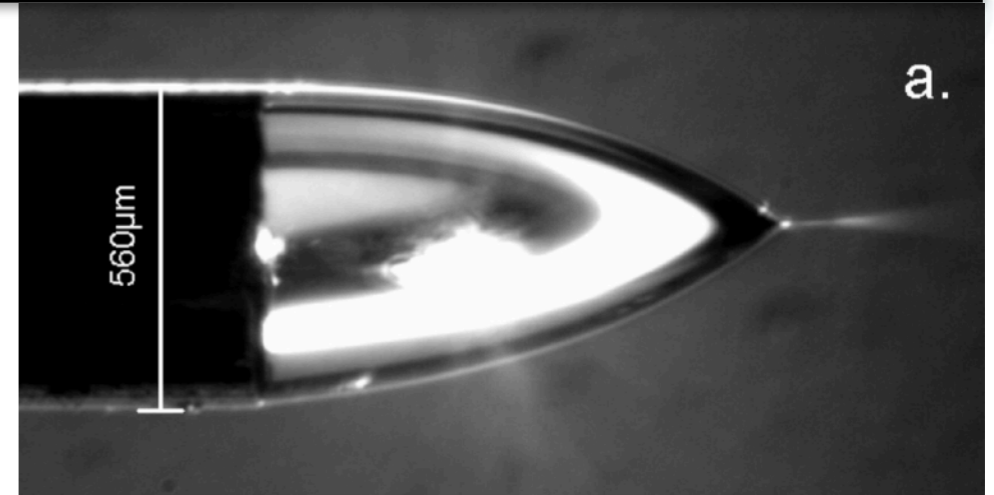
Silicon field emitters as neutralisers for space



early emitter arrays

“Use of coated silicon field emitters as neutralisers for fundamental physics space missions” *Advances in Space Research*, 2011 doi: [10.1016/j.asr.2011.06.001](https://doi.org/10.1016/j.asr.2011.06.001)

Microfabricated colloid thruster arrays

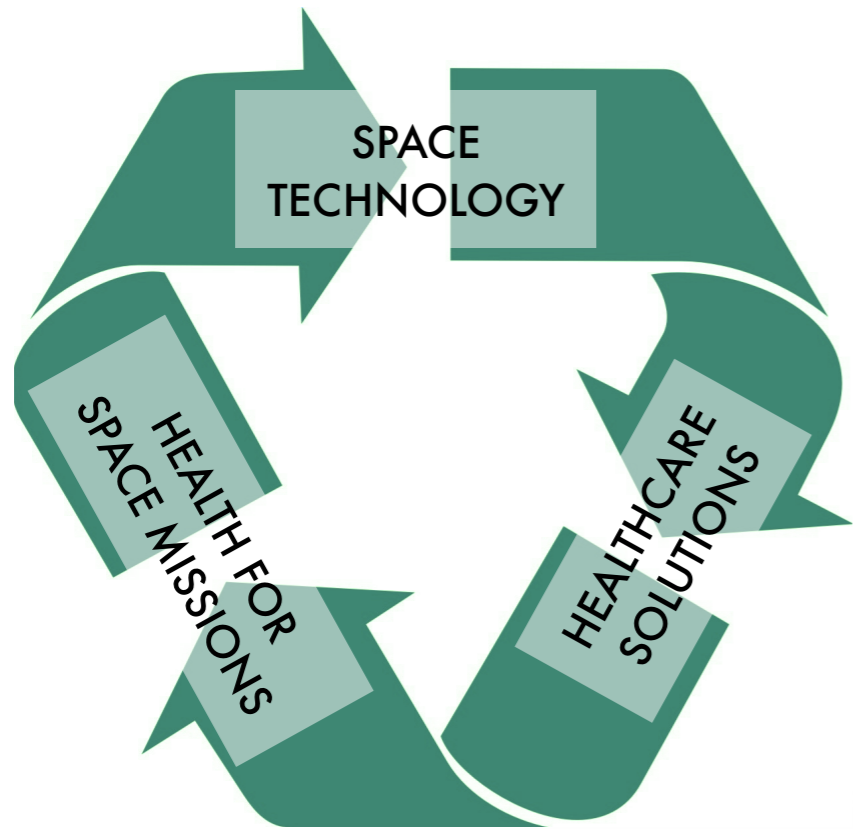


early collimator arrays

Electrospray Performance of Microfabricated Colloid Thruster Arrays, *JOURNAL OF PROPULSION AND POWER* Vol. 22, No. 3, May–June 2006

RAL Space

We see a different approach



Adaptix

