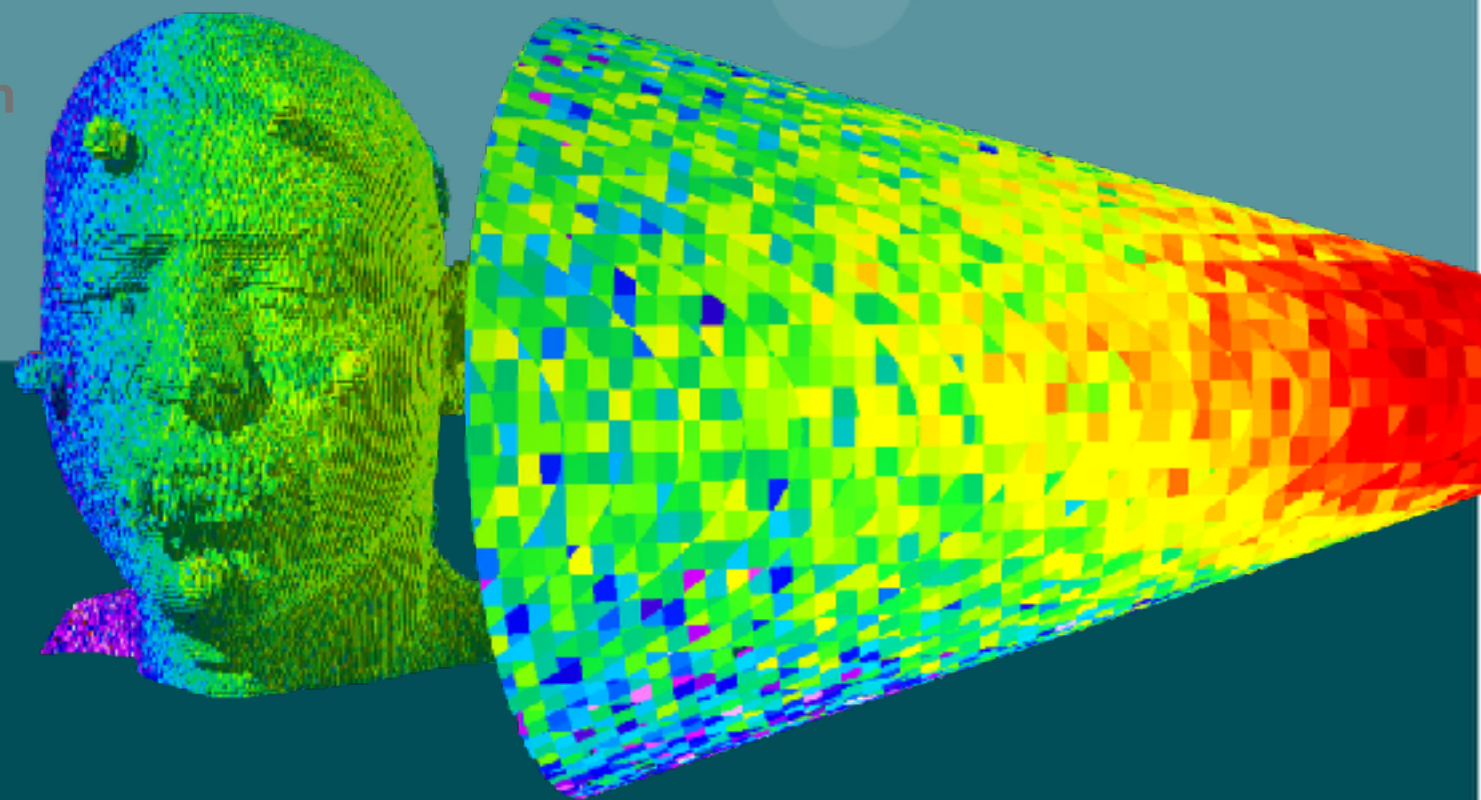




# Distributed X-ray Sources for Mobile Tomosynthesis

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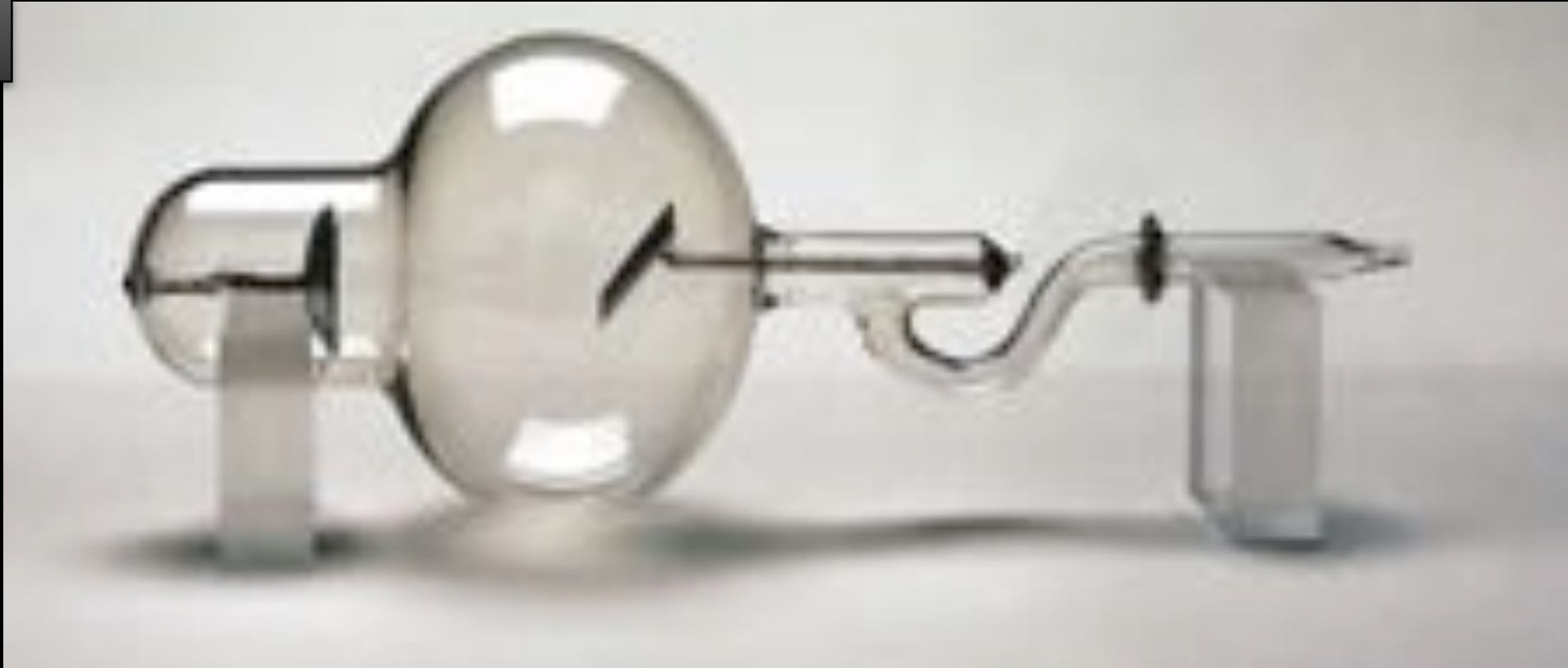
Gil Travish and the **entire Adaptix Team**  
CSO  
*Adaptix*



[www.adaptiximaging.com](http://www.adaptiximaging.com)

Eleftherios Skordis (CERN and University of Liverpool)

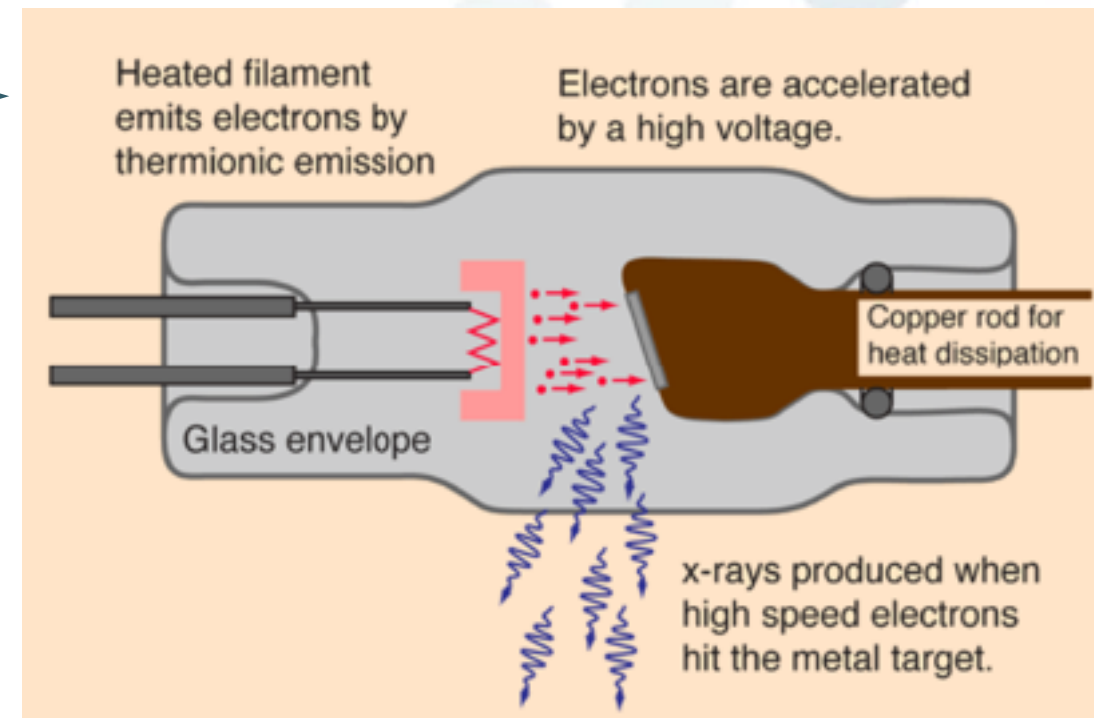
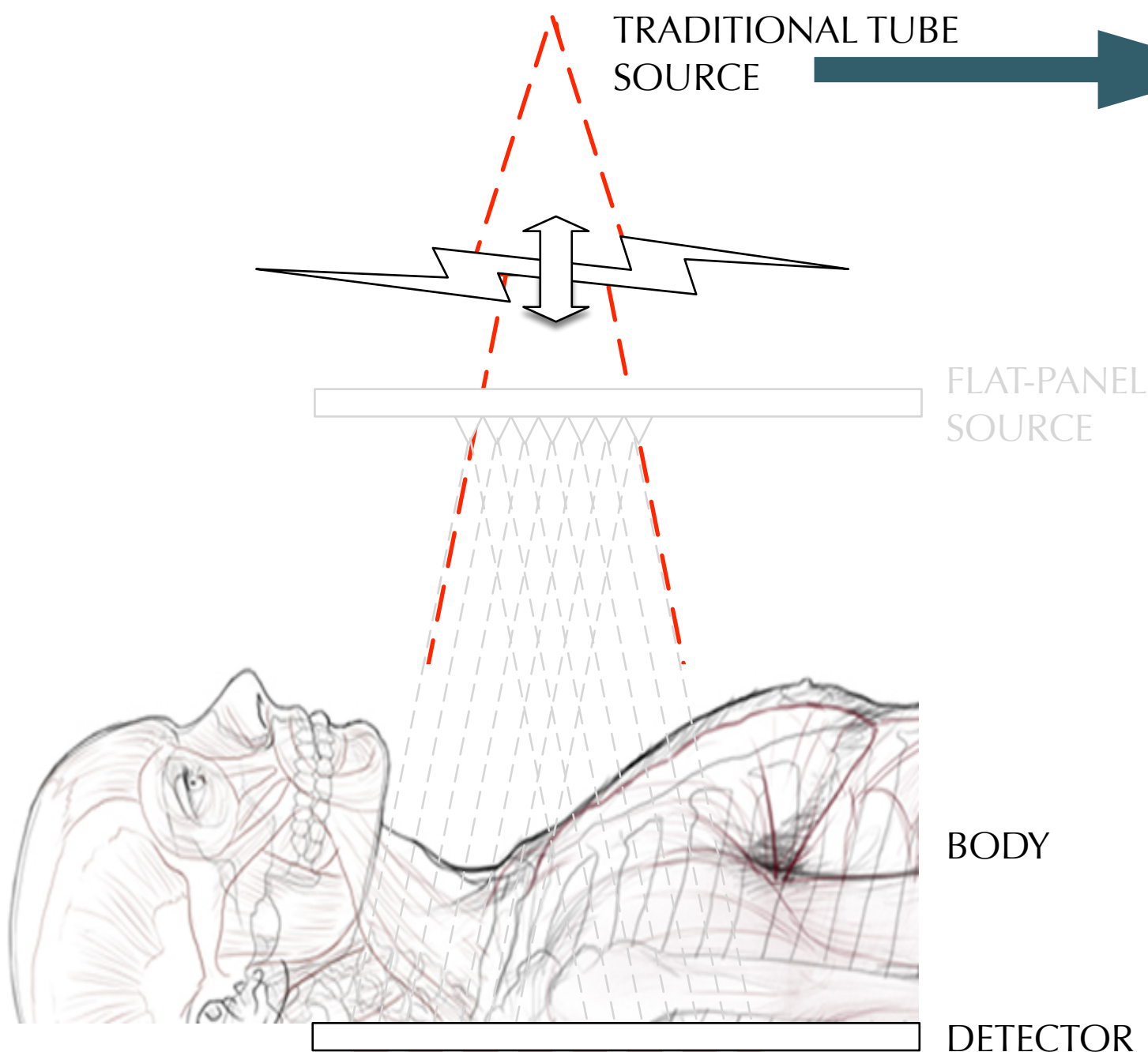
1896



2016

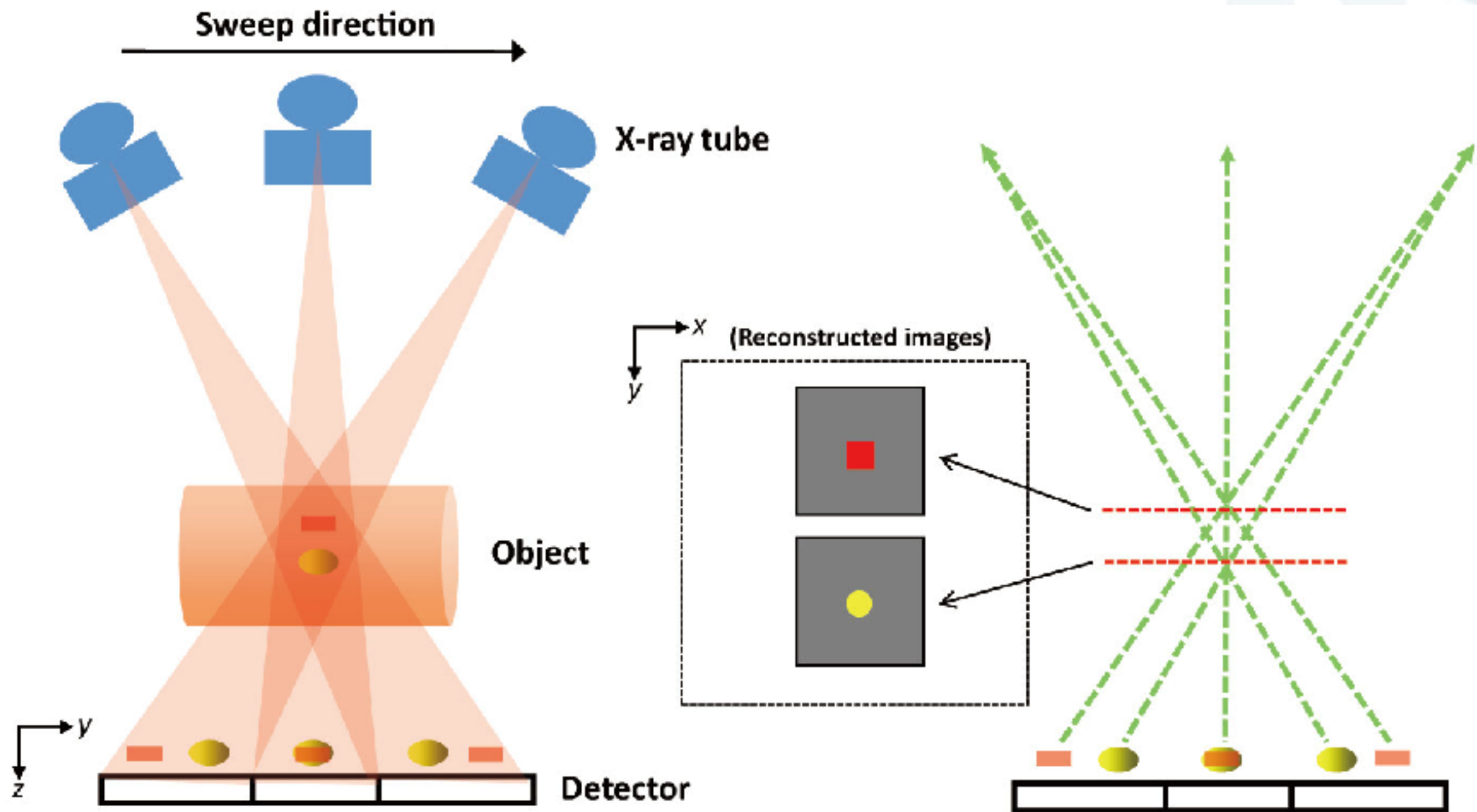


# All traditional planar radiology is performed with a single point source



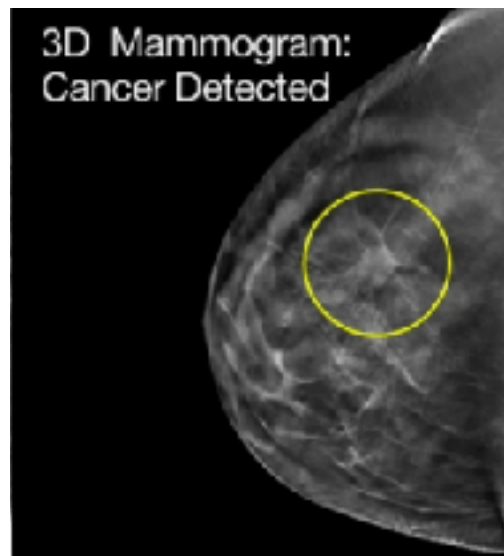
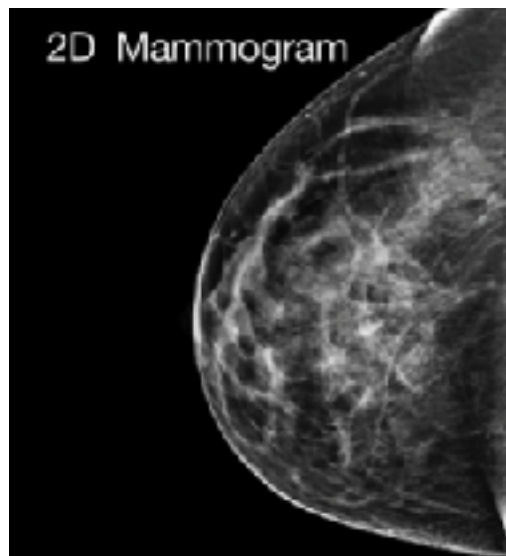


# Making the most of available data is one path to reducing lifetime dose: tomosynthesis



# Tomosynthesis >50% of Breast imaging market and is emerging in General Radiology.

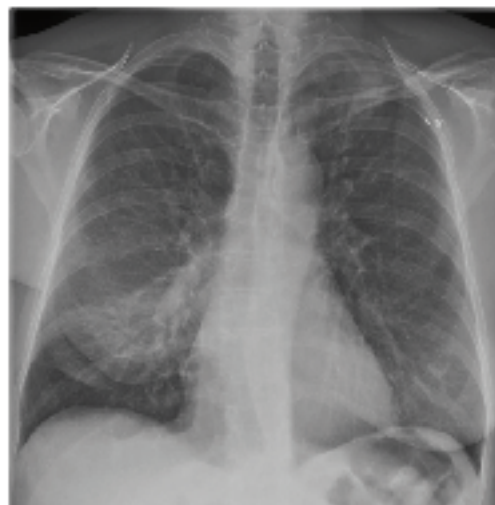
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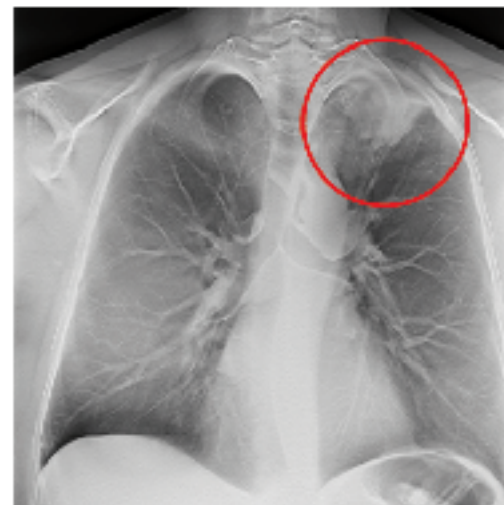
**HOLOGIC®**



**SIEMENS**



X-ray



VolumeRAD



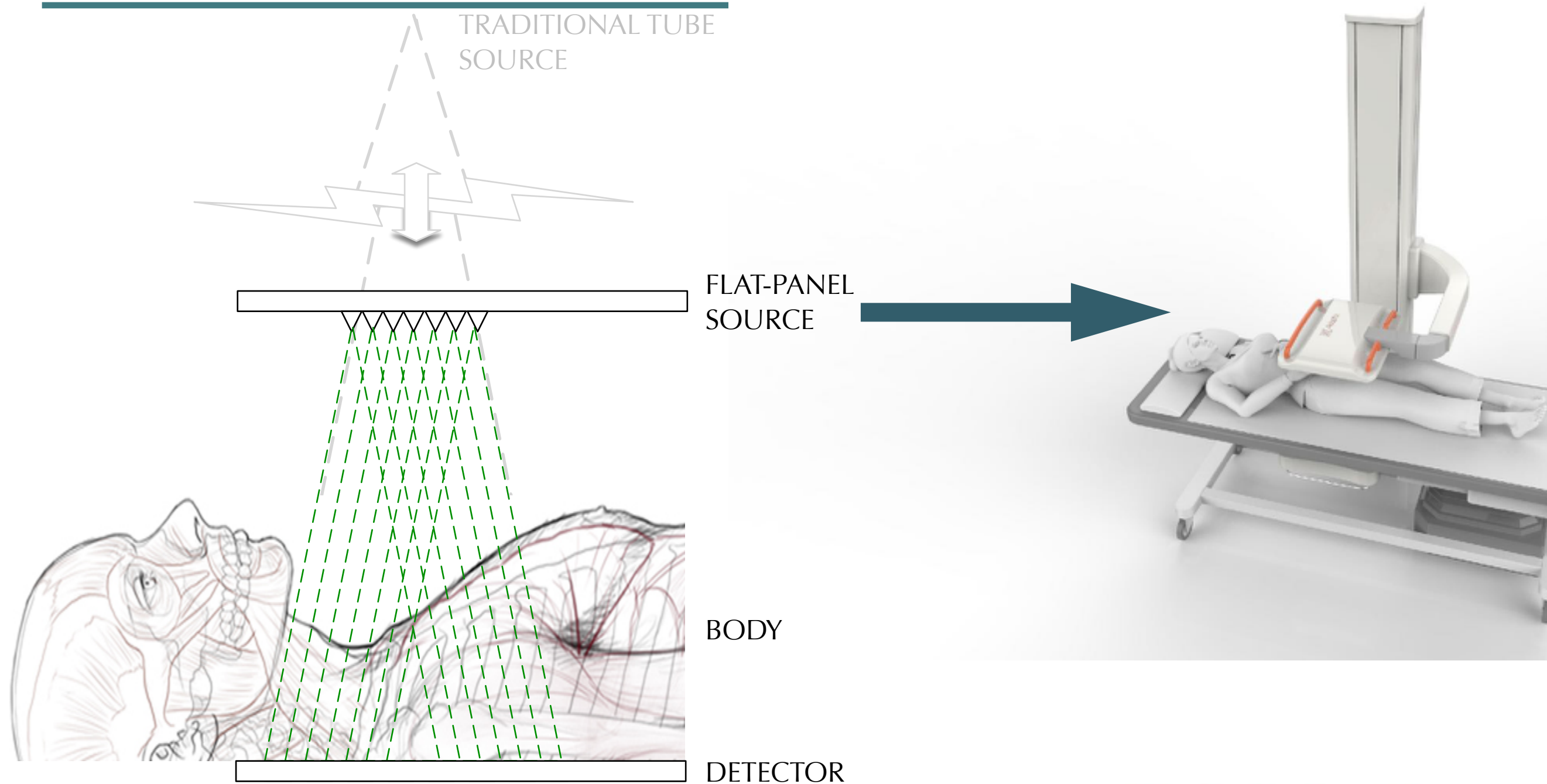
**SHIMADZU**



**SIEMENS**



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



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



**Portable  
Planar X-ray**

<b>3D Capability</b>	<b>NO</b>
<b>Approximate Size</b>	<b>Filing Cabinet</b>
<b>Typical Dose (CXR)</b>	<b>0.10 mSv</b>
<b>Price to Customer</b>	<b>\$170,000</b>
<b>Cost per scan</b>	<b>\$35</b>
<b>Typical Weight</b>	<b>200kg</b>

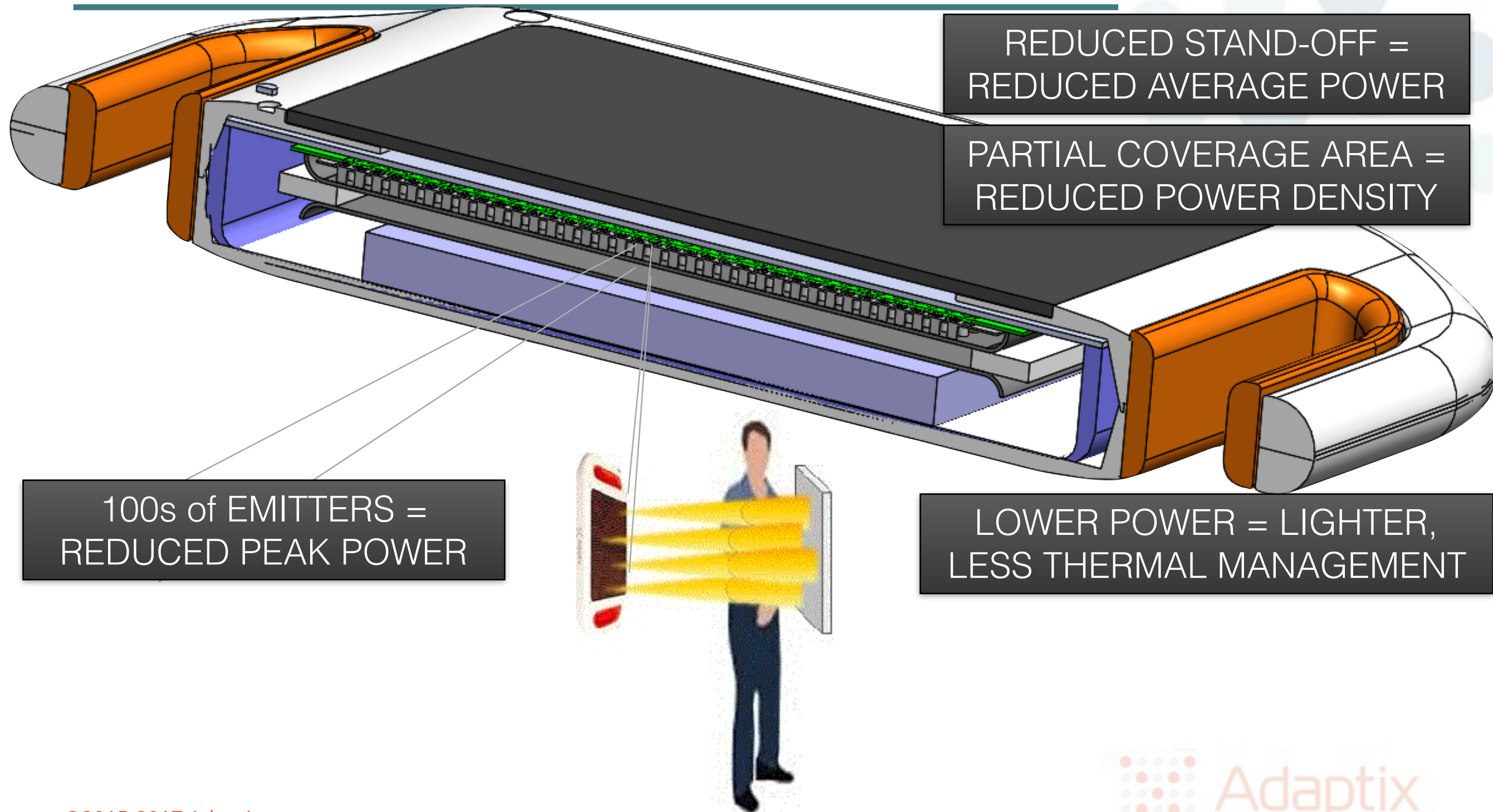


**128 slice Computed  
Tomography (CT)**

<b>YES</b>
<b>Small Car</b>
<b>1.5-8.00 mSv</b>
<b>\$1,100,000</b>
<b>\$255 (G0279)</b>
<b>2,000kg</b>



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





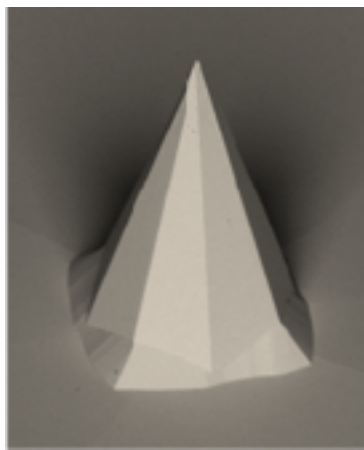
# Our unique selling proposition is low-dose low-cost portable 3D.



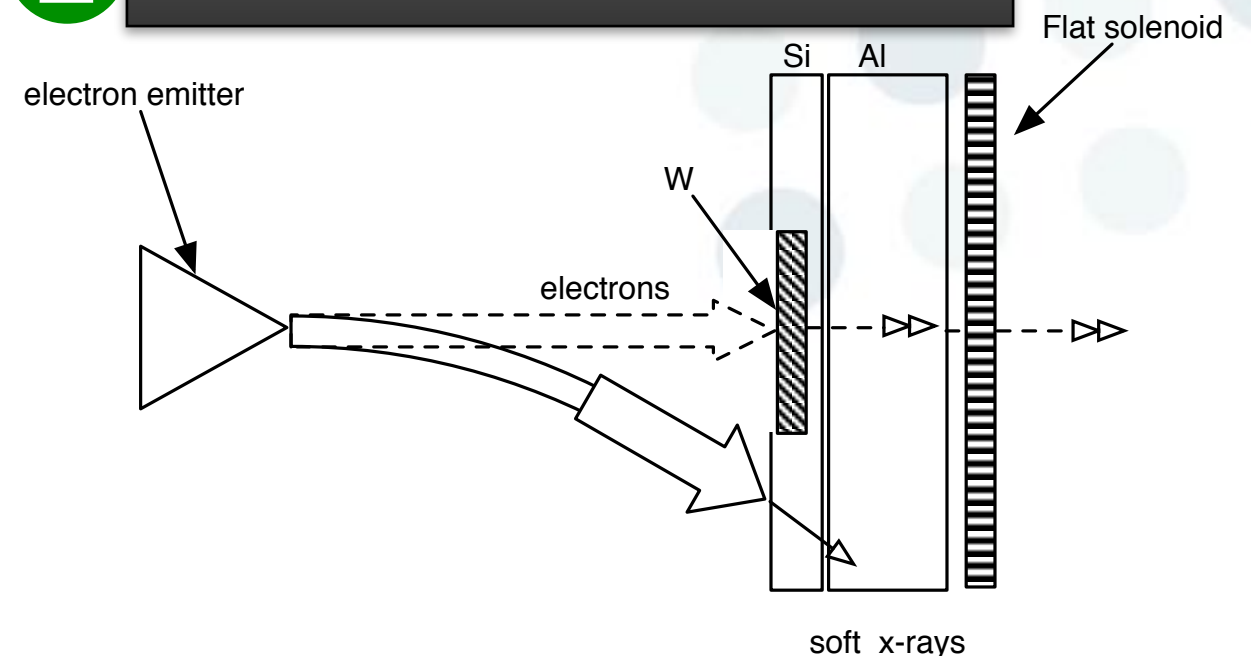
	Portable Planar X-ray	Planar Array Digital Tomosynthesis	128 slice Computed Tomography (CT)
3D Capability	NO	YES	YES
Approximate Size	Filing Cabinet	Carry-on bag	Small Car
Typical Dose (CXR)	0.10 mSv	<0.13 mSv	1.5-8.00 mSv
Price to Customer	\$170,000	\$100,000	\$1,100,000
Cost per scan	\$35	<\$35	\$255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

# We have four technology approaches that combine to make our novel source

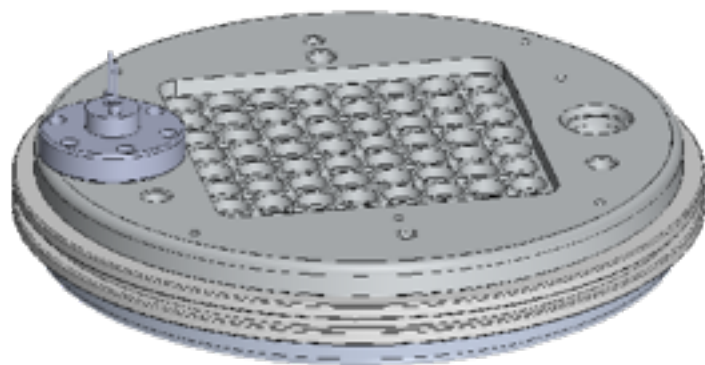
## 1 High Current FEE



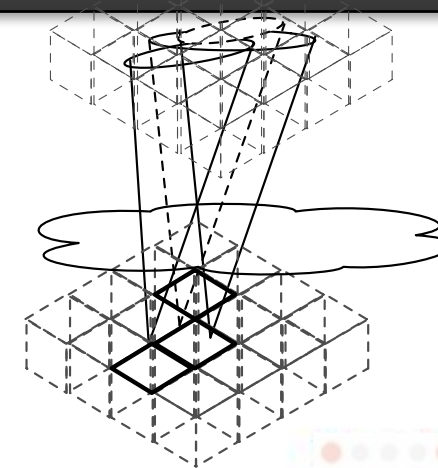
## 2 EM Emission Control



## 3 2D Array Packaging

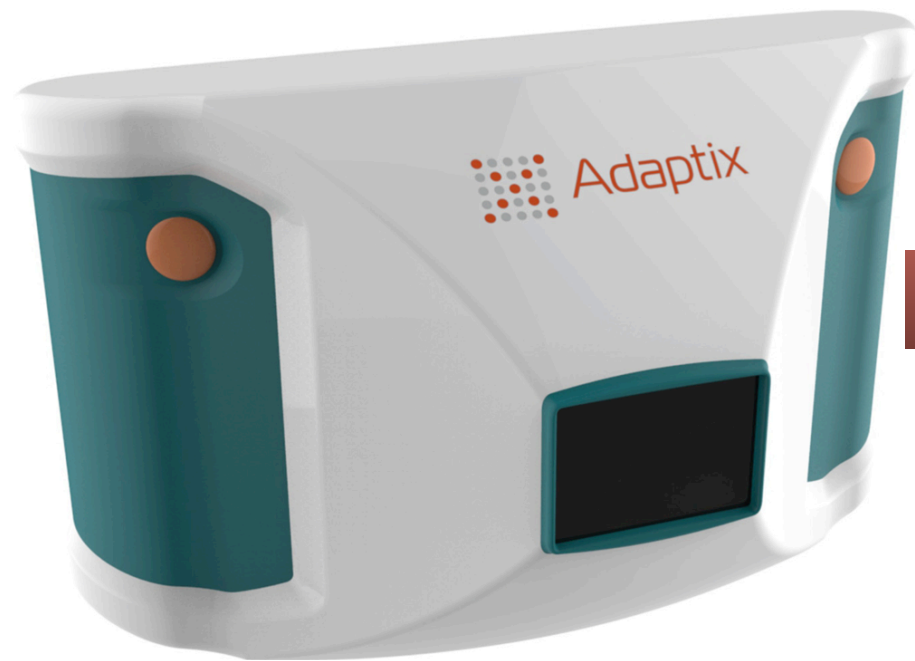


## 4 Partial Coverage Iterative Reconstruction



# Lots of use cases; same core technology

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DENTAL

GENERAL RADIOLOGY

STROKE / ENT

