



South Tees Hospitals **NHS**  
NHS Foundation Trust

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# An introduction to Trueview and collaborating with the NHS

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# Who are IBEX?

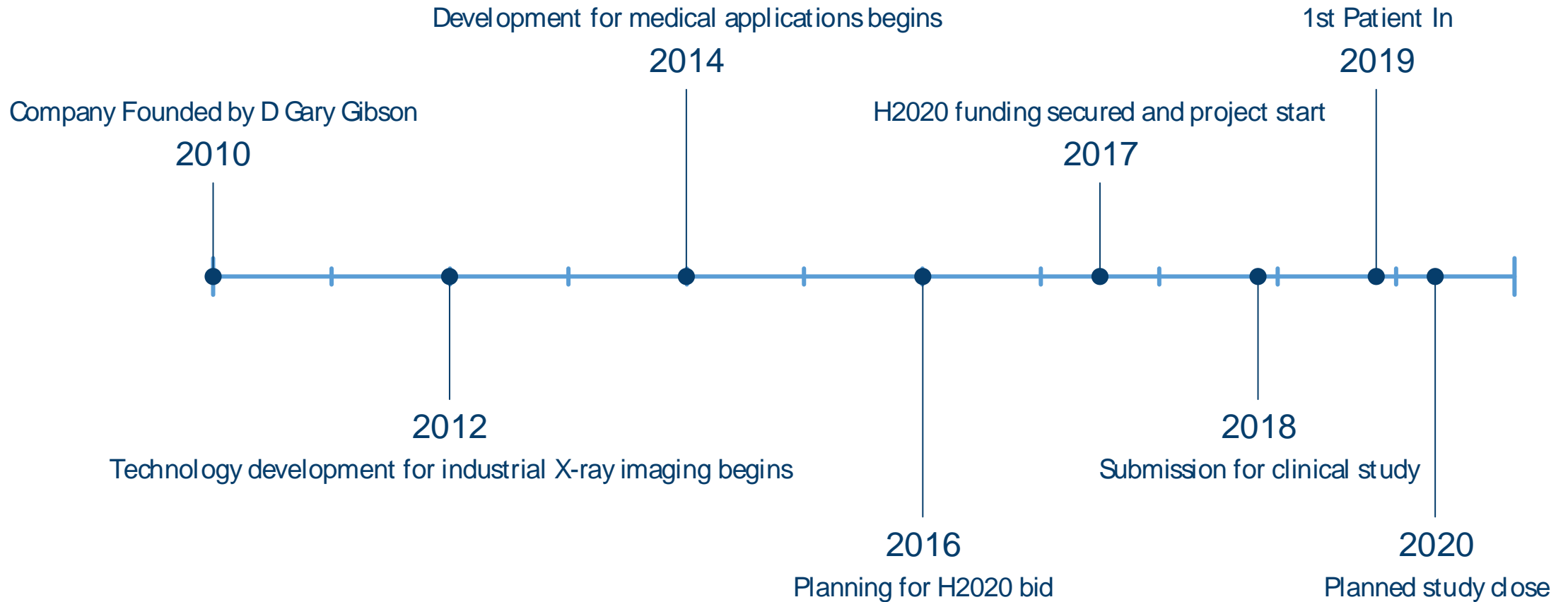


World leading team with unique expertise in physics-based X-ray imaging

Dedicated to improving healthcare with leading-edge software products for gridless scatter removal and advanced image post processing

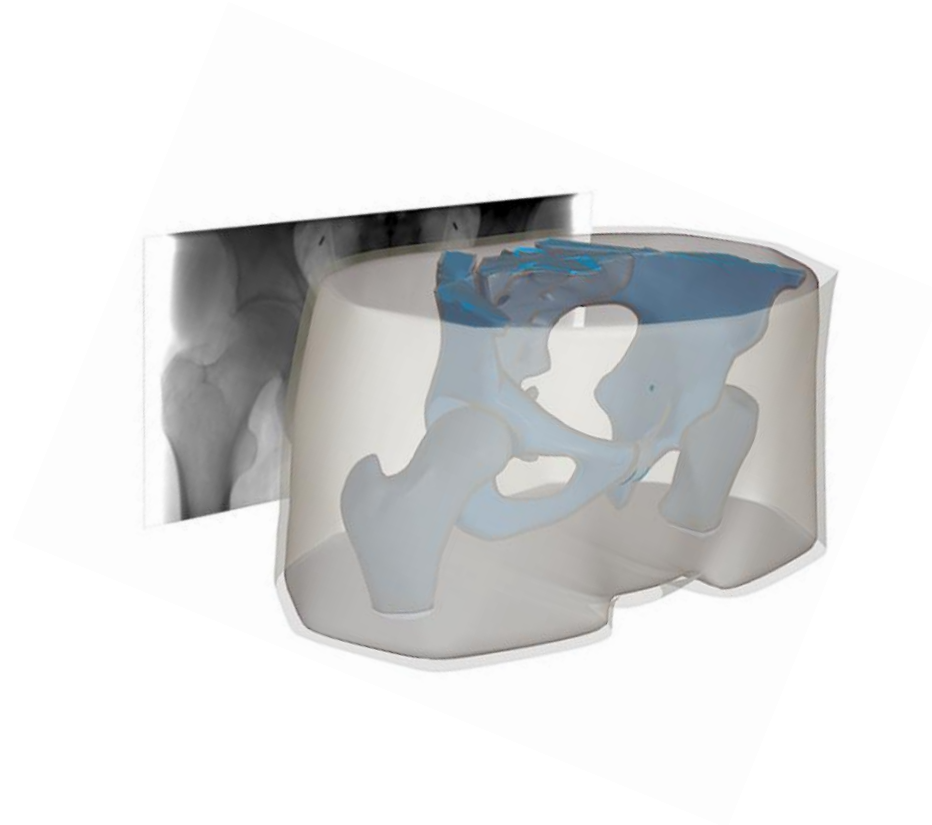


# Company Timeline



# What is Trueview?

IBEX Trueview physics engines creates accurate model of the real world image



Gridless  
Scatter  
Correction

Composition  
Information

Advanced  
Post-  
processing

# Effect of scatter on Image Quality



No Grid

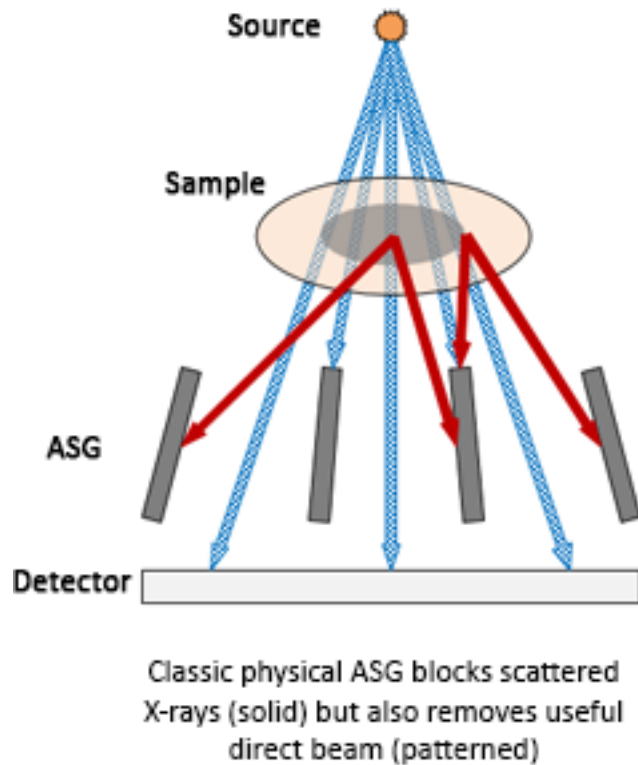
Focussed Grid  
8:1, 80 lines per cm

Scatter Component

Scattered X-rays contain little to no diagnostic information

Left unchecked, it can reduce local and global contrast

# Conventional Anti Scatter Grid (ASG)



Blocks off-angle scattered

Also blocks a large fraction of useful X-rays

Requires higher patient dose to compensate for absorption of direct X-rays

# IBEX Trueview<sup>®</sup> is Unique



State-of-the-art physics modelling

Works in all modalities

Highly accurate scatter correction

New outputs



# Before and after scatter correction



Unprocessed

**IBEX**Trueview®



Unprocessed

**IBEX**Trueview®





# Comparison to a standard ASG



Focussed Grid 8:1, 80 lines per cm



**IBEX** Trueview<sup>®</sup>

# IBEX Trueview<sup>®</sup> Composition-guided imaging



Better bone visualisation

Improved peripheral enhancement

Intelligent noise reduction

Materials information



# Live Patient Pelvis



Trueview Gridless Scatter Correction with Standard  
Post Processing



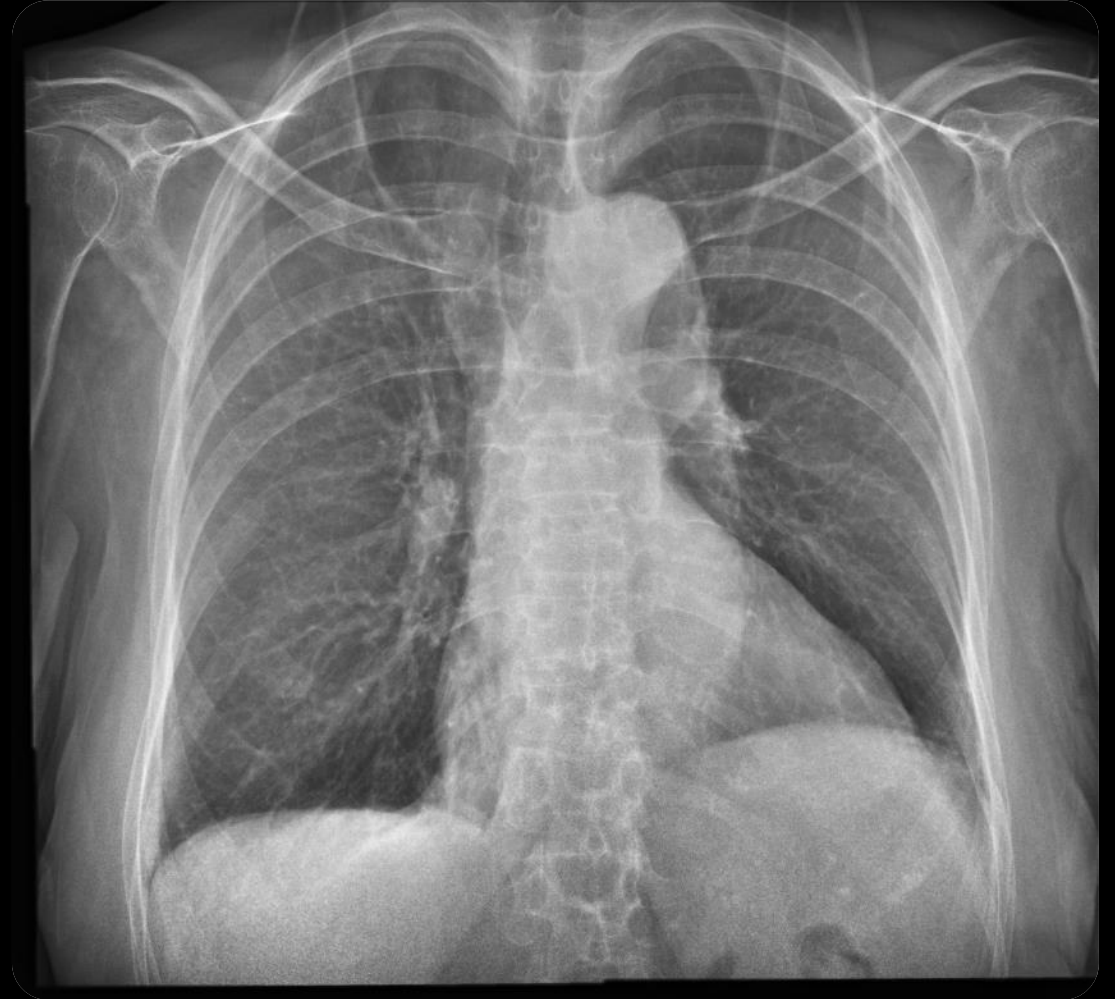
Trueview Gridless Scatter Correction with Composition  
Guided Post Processing



# Live patient chest CGPP



Trueview Gridless Scatter Correction with  
Standard Post Processing



Trueview Gridless Scatter Correction with  
Composition Guided Post Processing

# Lateral Knee



Standard Clinical Image



Trueview Gridless Scatter Correction with  
Composition Guided Post Processing



Standard Clinical Image



Composition Guided Post Processing

# What next...

Complete clinical trial in fixed digital radiography – South Tees NHS

Further investigations into use on mobile DR – Salford University

Assess clinical benefits in mammography – Gateshead BSU

Assess ultra low dose imaging performance – NIAW

Development of novel AI diagnostic tool – NIAW

# Thank you

Like to get involved? We are always looking for clinicians to join our panel of experts.

