## How we're building tomorrow's augmented healthtech

By Stine Mølgaard Sørensen Radiobotics







Stine Mølgaard Co-founder & COO Cand. Communications

We are building tomorrow's augmented healthcare technology

Radiobotics strives to challenge the status quo in radiology, by fully automating routine image analysis, accelerated by state-of-the-art machine learning methods



"We need to find areas where AI can help us save more time - so we can spend our time more wisely and put our efforts where it's needed."

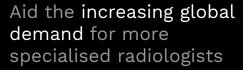
Mikael Boesen Professor, MSk Radiologist Head of Department Bispebjerg <u>Hospital</u>











At least 1,000 vacancies alone in the UK in 2017, and many more globally, while the number of X-ray examinations is growing rapidly, by 30% during the period 2012-17 (Royal College of Radiology, 2017).



Ensure that patients receive faster treatment with lower risk of misdiagnosis

Leads to direct and indirect savings, through less time use, saved expenses on treatment, shorter waiting time for patients and referring physicians.

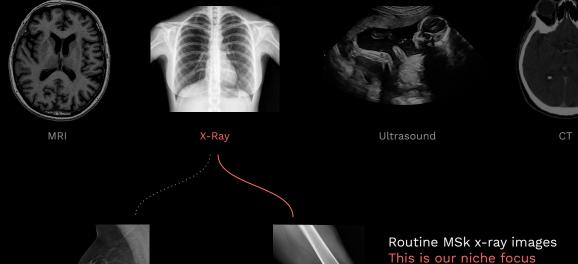


Help clinicians free up time to spend on more urgent and complex cases

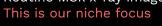
We are automating reporting on routine low risk tasks, that often get stuck in the bottom of a work list. Decreasing time spent on these cases, will free up time for more urgent complex cases.

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Building tomorrow's augmented healthtech

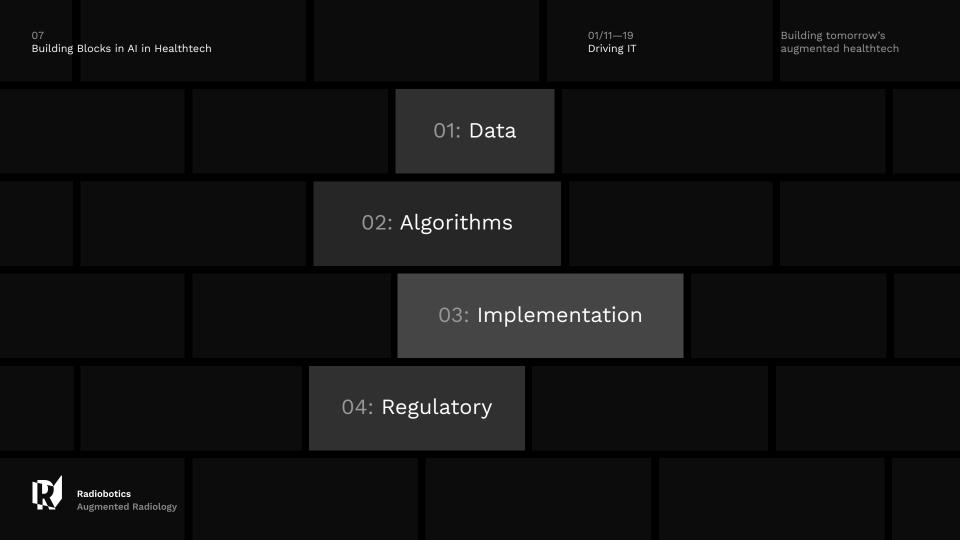






- Very high volume
- Low competition •
- Growing demand
- Often outsourced to teleradiology





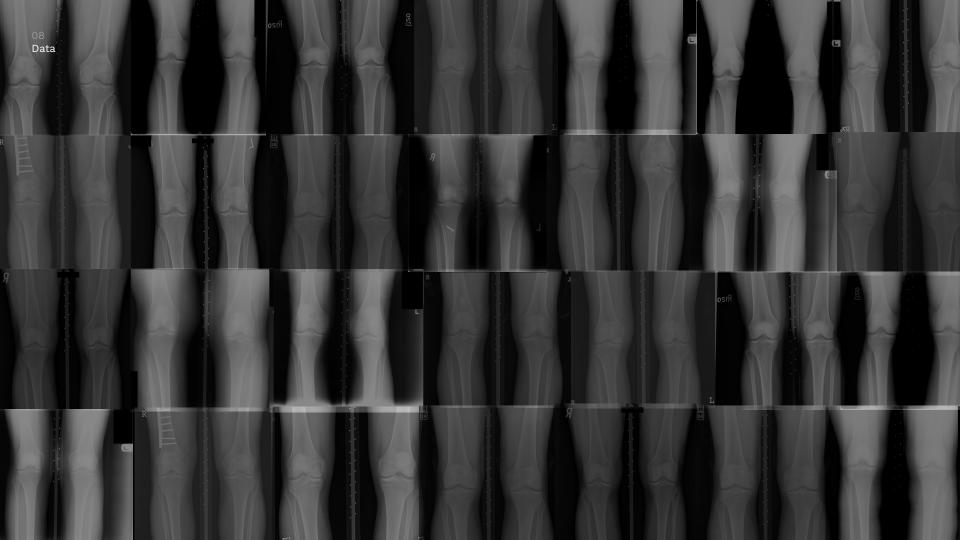


Image analysis

Based on advanced

computer vision

methods

and deep learning



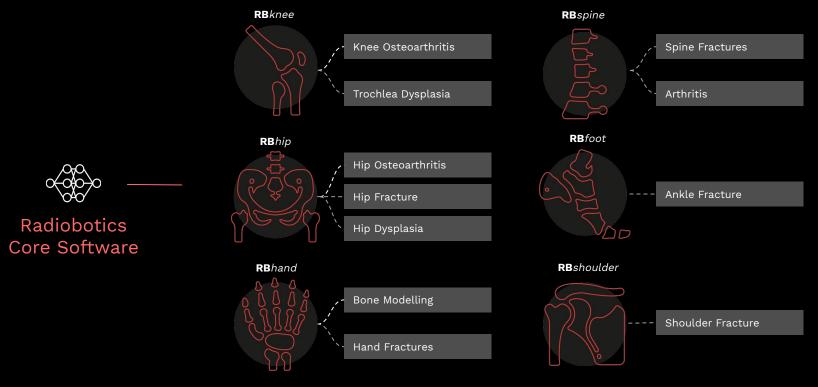
## Generated report

**Fully Automated** report of knee arthritis

Integratable into **PACS** 

Currently undergoing clinical test at hospitals





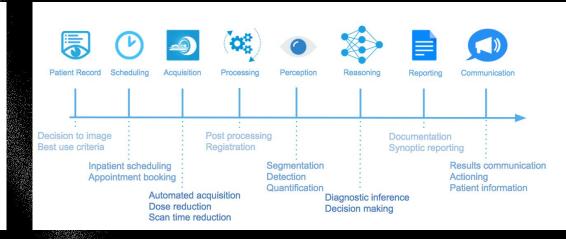


## Why AI will not replace radiologists



In late 2016 Prof Geoffrey Hinton, the godfather of neural networks, said that it's "quite obvious that we should stop training radiologists" as image perception algorithms are very soon going to be demonstrably better than humans. Radiologists are, he said, "the coyote already over the edge of the cliff who hasn't yet looked down".

This kick-started a hype-wave of biblical proportions that is still rolling to this day, and shows no signs of breaking just yet. In my opinion, although this wave of enthusiasm and optimism has successfully brought radiology artificial intelligence to the forefront of people's imaginations, and immense







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5 Part-time radiologists
For data annotation

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Thanks!