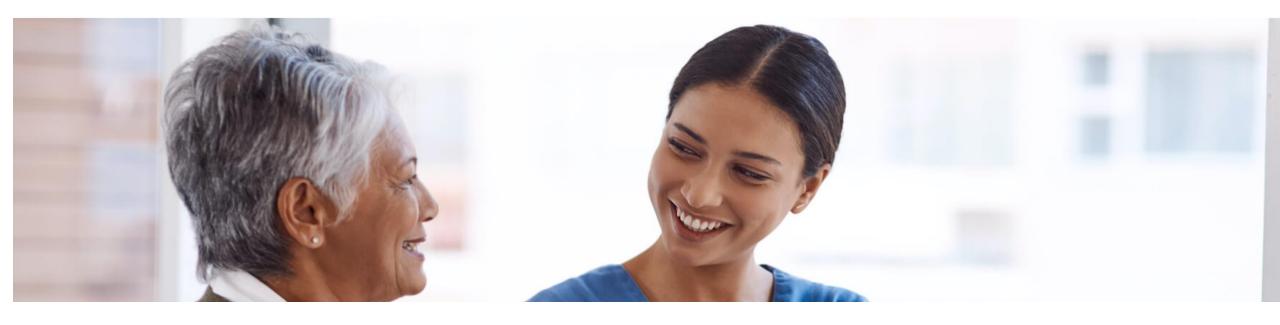
SCREENPOINT

Medical



Advancing early detection and diagnosis of breast cancer



Breast cancer – a global problem

- Radiologists miss up to 25% of visible cancers in screening mammograms
- Fewer radiologists
- Increase in workload due to introduction of 3D mammography
- Personalised screening increases need for effective risk assessment tools

One in eight women will be diagnosed with breast cancer in Western countries



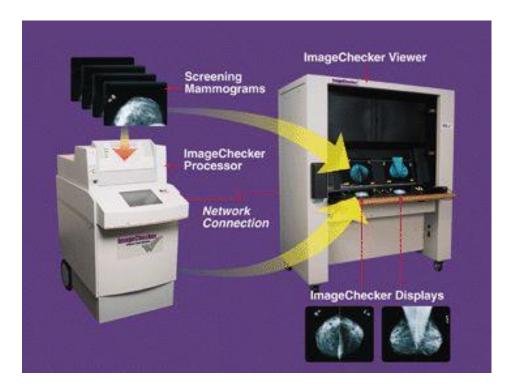
Worldwide increase from 2.1 (2018) to 3.1 million cases (by 2040)

Source: GLOBOCAN 2018



Existing solutions not effective / sustainable

- Double reading
- Recall more women for additional exams
- Computer Aided Detection

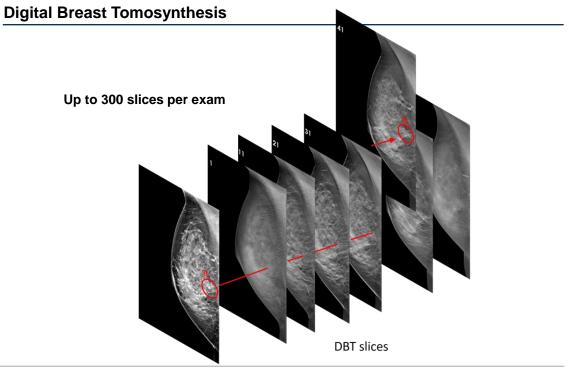


CAD was introduced 20 years ago in mammography

Transpara® is the first FDA cleared Deep Learning solution in 2D and 3D mammography

Regular 2D Mammogram



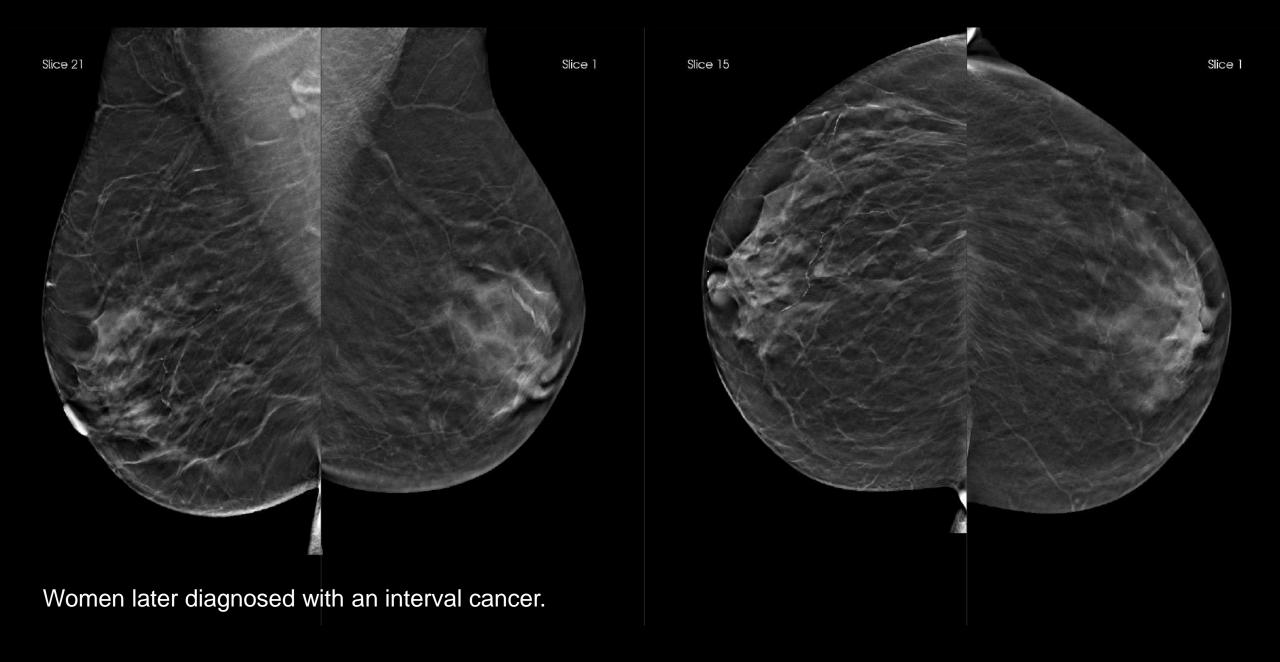


Technology and Algorithm

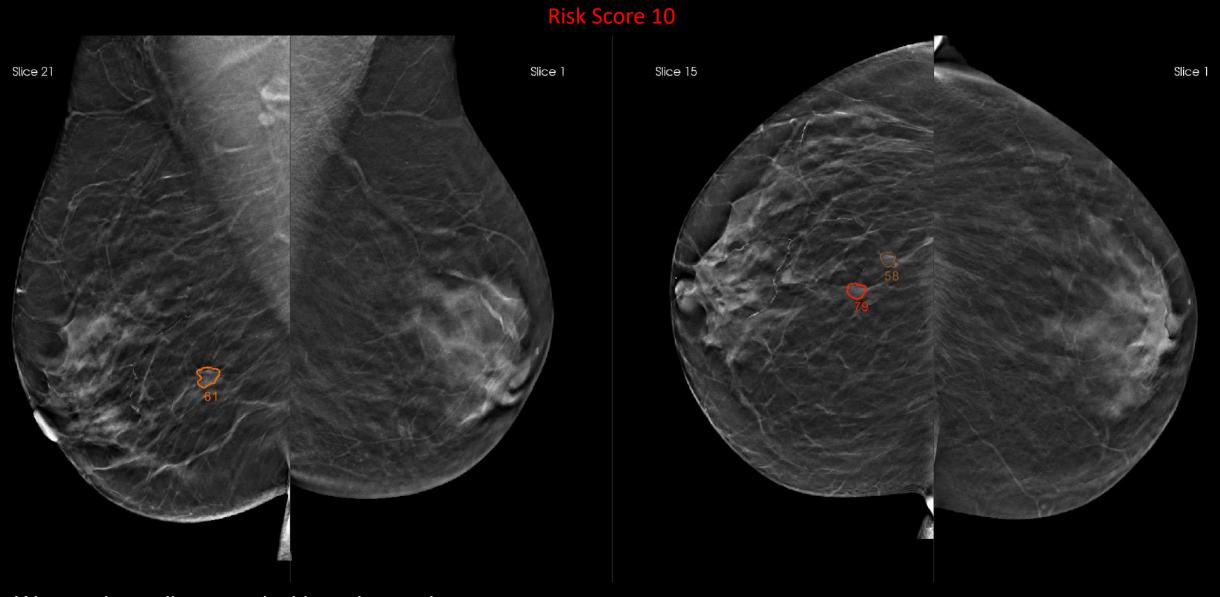
Synthetic 2D

- Algorithms trained on over 1,000,000 images
- Curated databases with populations from 12 countries and 3 continents

Negative DBT screening exam



Negative DBT screening exam



Women later diagnosed with an interval cancer.

Studies demonstrate superior performance of Transpara



JNCI J Natl Cancer Inst (2019) 111(9): djy222

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ARTICLE

Stand-Alone Artificial Intelligence for Breast Cancer Detection in Mammography: Comparison With 101 Radiologists

Alejandro Rodriguez-Ruiz, Kristina Lång, Albert Gubern-Merida, Mireille Broeders, Gisella Gennaro, Paola Clauser, Thomas H. Helbich, Margarita Chevalier, Tao Tan, Thomas Mertelmeier, Matthew G. Wallis, Ingvar Andersson, Sophia Zackrisson, Ritse M. Mann, Ioannis Sechopoulos

Radiology

ORIGINAL RESEARCH • BREAST IMAGING

Detection of Breast Cancer with Mammography:

Effect of an Artificial Intelligence Support System

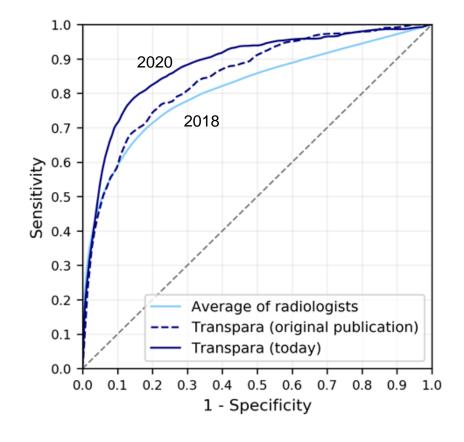
Alejandro Rodríguez-Ruiz, MSc • Elizabeth Krupinski, PbD • Jan-Jurre Mordang, MSc • Kathy Schilling, MD • Sylvia H. Heywang-Köbrunner, MD, PhD • Ioannis Sechopoulos, PhD • Ritse M. Mann, MD, PhD

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Conflicts of interest are listed at the end of this article.

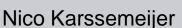
See also the editorial by Bahl in this issue.

Radiology 2019; 00:1-10 • https://doi.org/10.1148/radiol.2018181371 • Content code: BR



ScreenPoint Founded in 2014 as spin-out of Radboudumc







Mike Brady



Carl Evertsz

Professor at Radboud University Co-founder QView (CA) and Volpara (NZ)



Professor at Oxford University Co-founder Perspectum (UK), Volpara (NZ), Mirada (UK)



Previously CEO of MeVis Medical Solutions



Software und Services für die Bildverarbeitung in der Medizin innovativ, kompetent, erfahren

Startup - phase

Preparation (1 year)

- Make business plan
- Form a team (students and co-founder)
- Get permission (and keep position as professor)
- Negotiate license agreement with
- Foundation and Startup (May 2014)
 - Initial funding from founders
 - 3 employees
 - Rented office space in "Mercator Launch" (Toernooiveld 100)
- Support
 - SMB (advise John Schalken, kleine 'kraamkamer' subsidie)
 - Valorisation



Startup – phase II (2017-2019)

- Developing Algorithms
- Expanding the team to 20 employees
- Clinical studies
- Regulatory clearance (CE, FDA)
- Key publications with researchers at Radboudumc
- Funding round with Siemens Healthineers as lead investor



Scaling up

- Back to the campus
- Expanding the team to 40 employees
- Building relations with KOLs
- Expanding evidence
- First customers
- Regulatory clearance DBT
- Setting up sales network (direct and through distributors)



ScreenPoint now: Global presence and leading AI company in breast imaging

