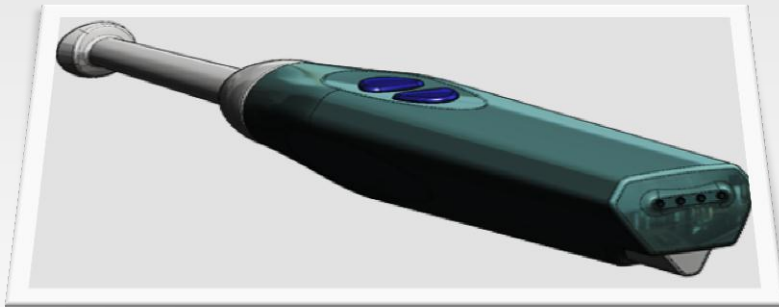




William Gregory, PhD  
Co-Founder  
NovaScan, LLC



# Real-time electrical cancer detection (*ex vivo* and *in vivo*) Platform technology Initial target breast cancer



Surgical cancer probe: ~300 patient study, SN=94%, SP=83%



Electrical mammogram: 50 patient study, 0 FN, 0 FP

## NovaScan LLC

Presented by :

William Gregory, PhD PE  
Chief Science Officer  
[www.novascanllc.com](http://www.novascanllc.com)

December 7, 2011



*\*These devices are not yet approved for sale by the FDA in the USA*

# Residual Cancer Left After BCT Surgery Need Addressed

## No real time detection of cancer

At present surgeon has no tool to identify benign vs. cancerous tissue in during surgery.

**12-25% of cancer is left behind<sup>1</sup>.**

Only discovered after patient discharged.

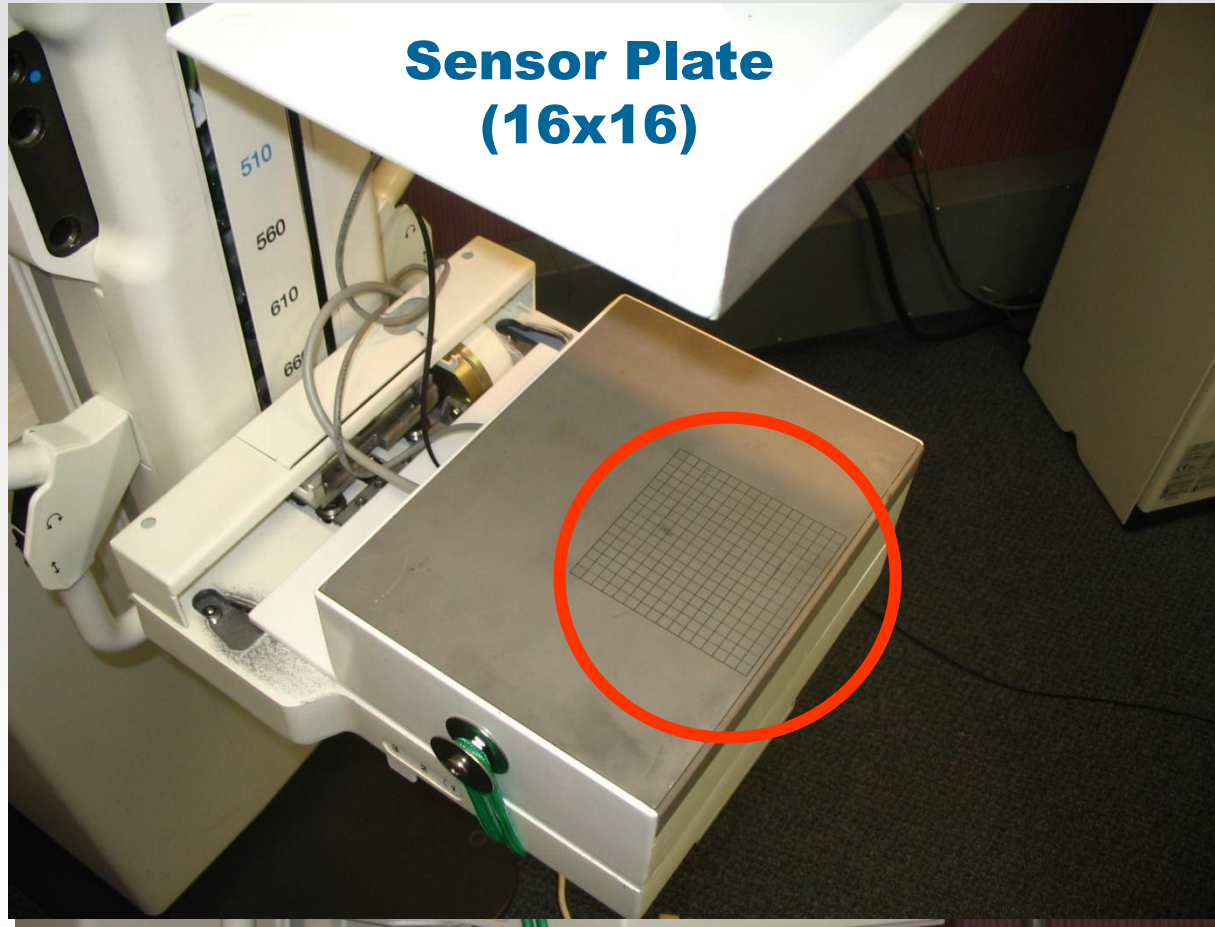
**Surgery must be repeated<sup>2</sup>**

2<sup>nd</sup> surgery 20-40%,  
3<sup>rd</sup> 6% of time

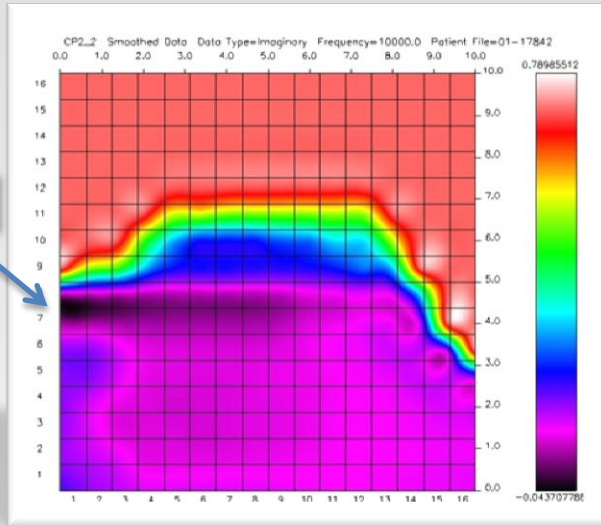
1. John Frangioni, MD, PhD, Harvard Medical School

2. Smitt Melanie C, Horst Kate (2007), *Ann. of Surg. Oncol.* **14(3)**, 1040-4

# Electrical Mammogram



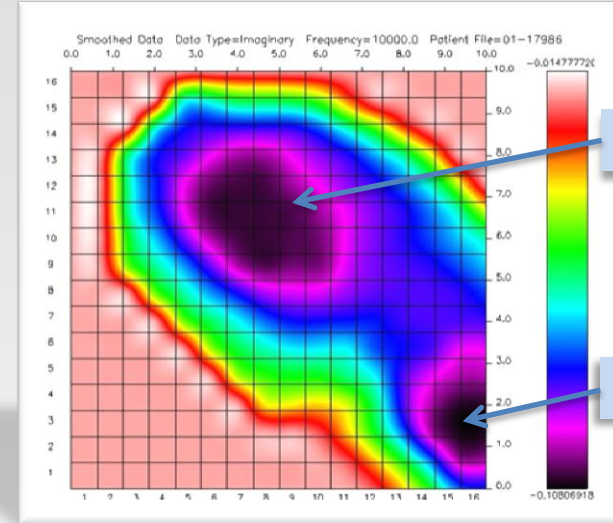
# Electrical mammogram scans



**Electrical mammogram scan showing No Disease**

**(Ca-Cr orientation)**

Black streak (see arrow) is caused by a calibration tape placed on the electrodes and is not a sign of disease



**Electrical mammogram scan showing Disease**

**(M-L orientation)**

Mass #1 is poorly differentiated invasive ductal carcinoma (3 mm);  
Mass #2 is metastatic carcinoma involving lymph node tissue (4.5 cm).

# Financials

**\$1million--**

Private  
investors

(as of 10/2011,  
\$400k cash in,  
\$500k  
approved from  
Aurora, \$100k  
from suppliers)

NSF Phase IIb  
**\$500k**

+

Phase II **\$500k**

Total: **\$2  
million--**

To cover Pilot  
Study

Additional **\$1.6  
million--**

Canada,  
Europe and  
Indian  
approvals;  
strategic  
partners

# Real-time cancer screening (*ex vivo* and *in vivo*)



Breast cancer surgical probe:  
~ 300 patients; 94% sensitivity,  
83% specificity



Electrical mammogram:  
50 patients; 0 false negatives,  
0 false positives

## NovaScan LLC- Booth 825

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