Startup skaber elektronisk sundhedsrevolution

Copenhagen X-Prize Team (C

Jens Raarup

CEO/CTO

Jacob Nielsen Board

Board Chairman

Rolf Ask Clausen

CCO

20.11.2012









Topics of the presentation

- Electronic / Mobile Health evolution
- CXT Vision
- CXT technology approach
- •CXT Purpose & Business case
- •CXT's needs
- Questions & Answers





Who are we (CXT Board) ?

Jens Raarup – CEO/CTO (Former R&D Director, Nokia)

- B.Sc.EE RF & Signal processing
- 24 years in mobile device R&D



Jacob Nielsen – Board Chairman

- Master of Political Science
- 13 years in EU program public funding

Rolf Ask Clausen – CCO

- B.Sc. Mechanical engineering
- 27 years in communications & technology









CXT Design team

Jesper Jepsen SW Designer

Børge Fischer SW Designer

Niels Sandholm HW Designer

Christian Selmer MD, PhD

Lone Olufsen Medico and User interaction

Ian Jørgensen SW & UI designer

Per Andersen HW Designer

Benny Pedersen IT architecture

Roxane Baghi CBS Student

Gytis Sakalauskas CBS Student

Yvonne Ditlevsen CBS Student

Dominik Weber CBS Student

















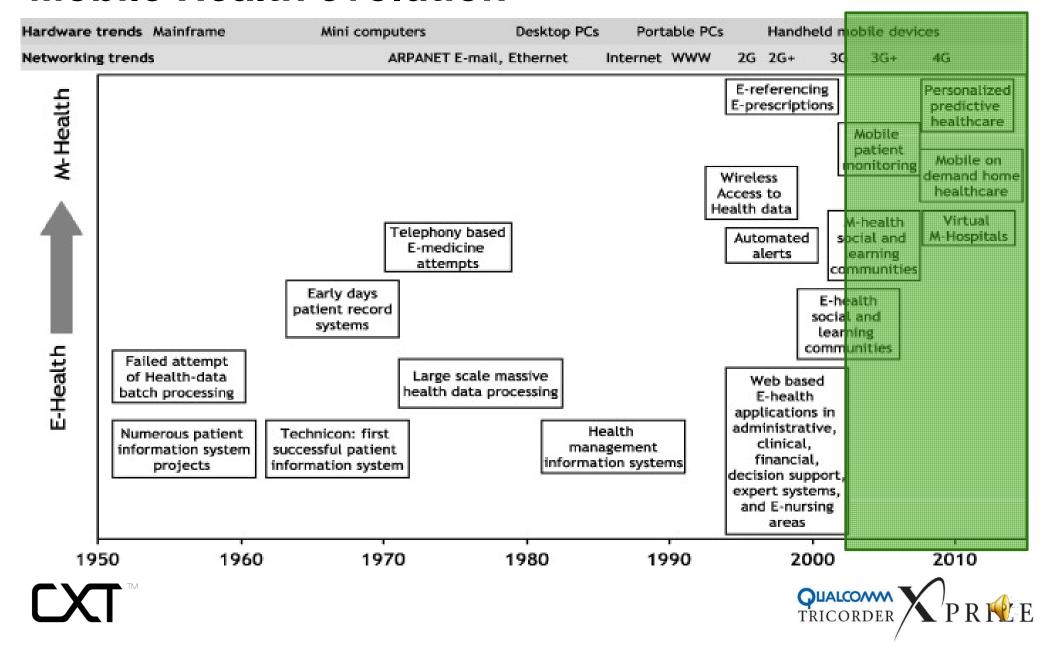




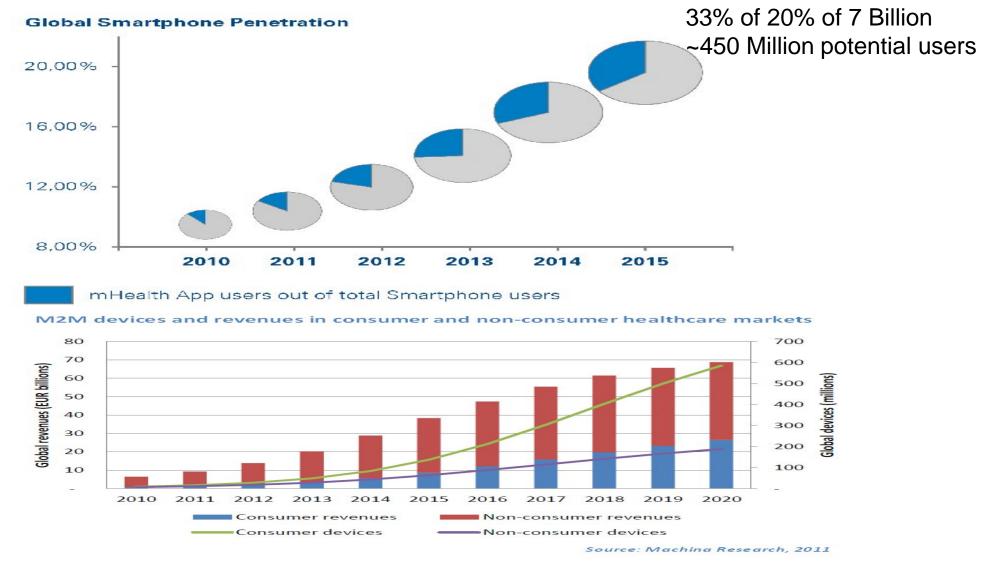




Mobile Health evolution



Mobile health Business outlook







The various offering today (real or vision)





















Background for Qualcomm X-Prize Challenge

Radical innovation

 Collaboration: Research – Tele-Medico industry – Public Health Sector







CXT vision

- Position Denmark in Stronghold of Mobile Health technology.
 - Creation of Mobile health cluster in Denmark.
 - Leading to new jobs being created.
 - Combat the declining global investment in Denmark.
- •Cut down on the escalating national health costs. (36 Billion)
 - Enable people to take ownership for their health and act accordingly.
 - Democratization of the health system.
- •Increase the lifespan of the workforce.
 - Increased BNP.
 - Increased quality of life.





Elevator Speech

Let your smart device tell you if you are sick!



Inspiration:

The Star Trek Tricorder - all knowledge at hand.





Star Trek 1980
TR-580 Tricorder

Starfleet R&D San Francisco





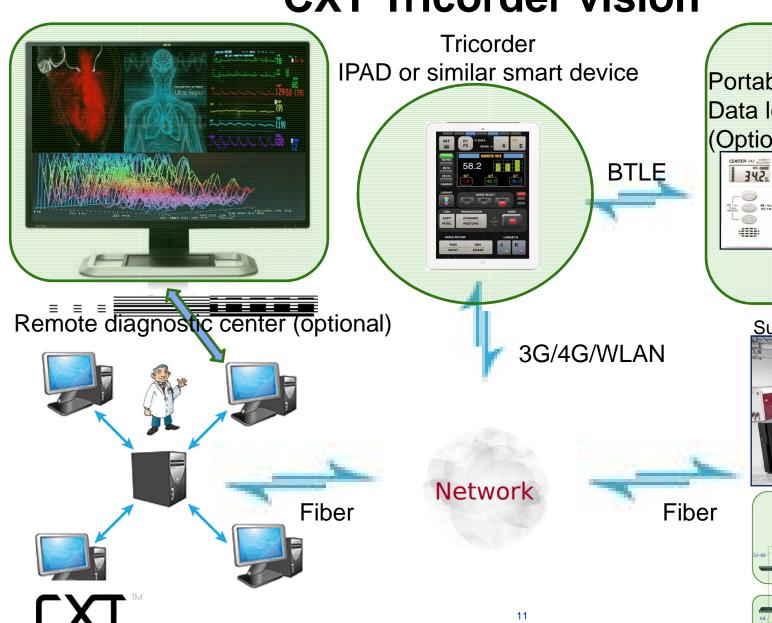


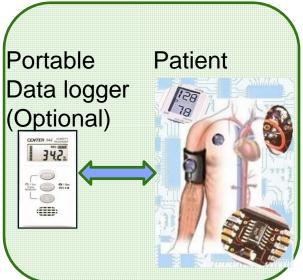
Vision:

Smart Device with wireless bio-sensors, cloud connection & artificial intelligence



CXT Tricorder vision



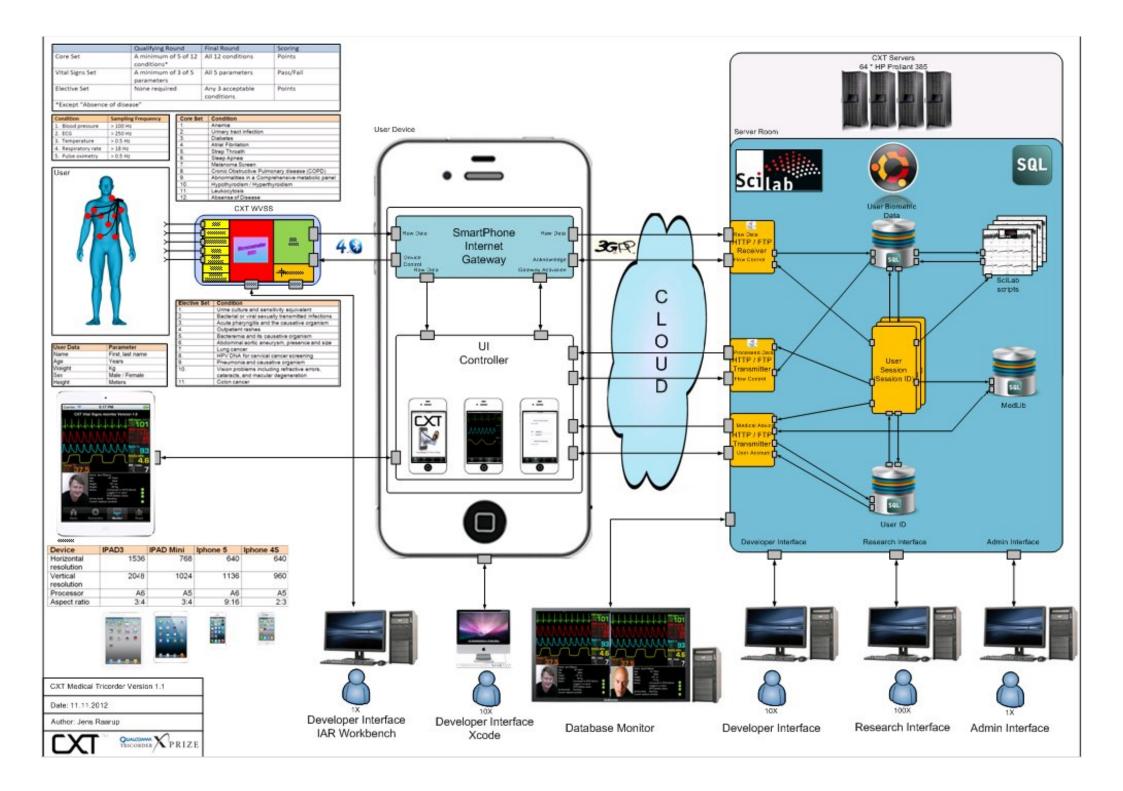


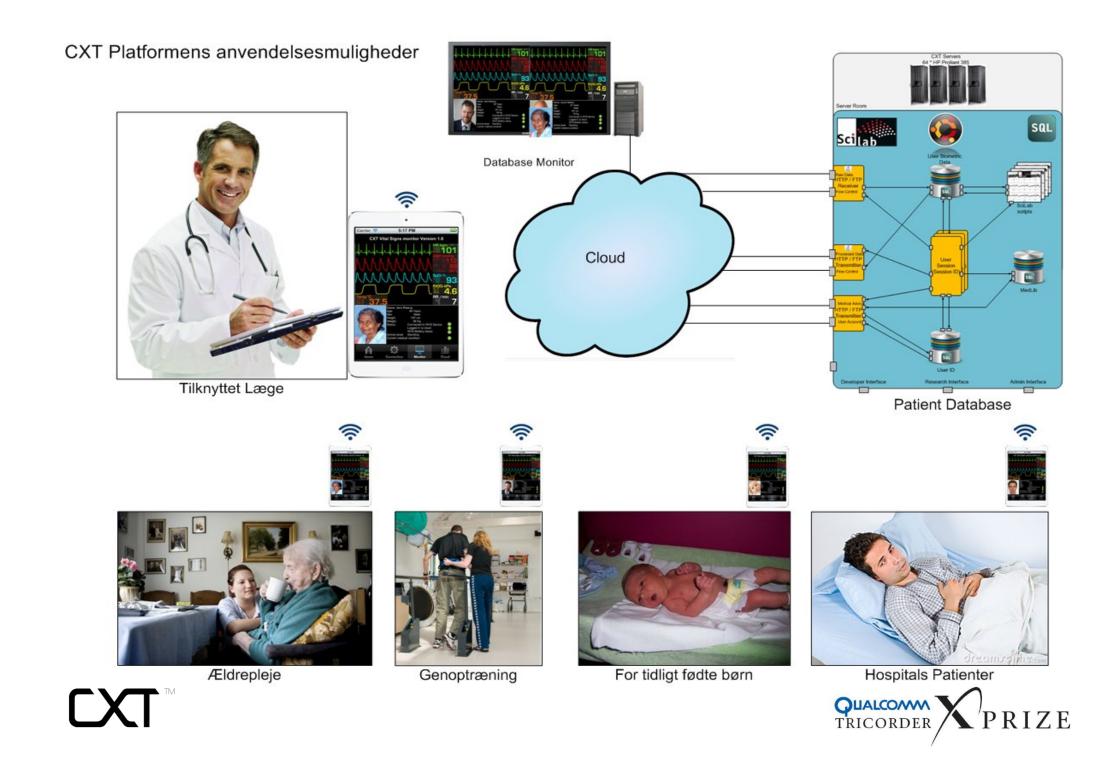












Why?

- •E/M-Health is the new blue ocean and hence, new business, growth and profit is possible
 - Rules not defined, platforms not established
 - Our target is to create open platform for the industry to benefit
 - Qualcomm X-Prize Tricorder challenge is the technology vehicle
- •Denmark has proven potential within medical technology and CXT will leverage this potential.
 - Integration of existing technology is the key

- Our capability inside HW, SW and User Interface design will enable CXT to succeed.
 - Our Scandinavian approach combined with open innovation model will give us advantages. The Nokia close down in Copenhagen will give the kick start for CXT







Local medico technology landscape in



Tricorder X-Prize requirements

#	5 Vital Signs
1	Arterial blood pressure
2	Electrocardiography
3	Temperature
4	Respiratory rate
5	Pulse oximetry

#	Core Set (All)
1	Anemia
2	Urinary tract infection
3	Diabetes
4	Atrial fibrillation
5	Strep throat
6	Sleep apnea
7	Melanoma screen
8	Chronic obstructive pulmonary disease (COPD)
9	Abnormalities in a comprehensive metabolic panel
10	Hypothyroidism/hyperthyroidism
11	Leukocytosis
12	Absence of disease

#	Elective Set (minimum 3)
1	Urine culture and sensitivity equivalent
2	Bacterial or viral sexually transmitted infections
3	Acute pharyngitis and the causative organism
4	Outpatient rashes
5	Bacteremia and its causative organism
6	Abdominal aortic aneurysm, presence and size
7	Lung cancer
8	HPV DNA for cervical cancer screening
9	Pneumonia and causative organism
10	Vision problems including refractive errors, cataracts, and macular degeneration
11	Colon cancer





CXT targets

- •Participate (and winn) the Qualcomm Tricorder X-prize competition.
- Proliferate the automatization of medical diagnosis.
- •Create new possibilities for patients to monitor their own health.
- •Gather and leverage the Danish Medico know how into commercial products.
- •Pave the ground for new companies as spin-off from the X-Prize achievements.
- •Secure public and private funding to finance the R&D required to participate in the X-Prize competition.

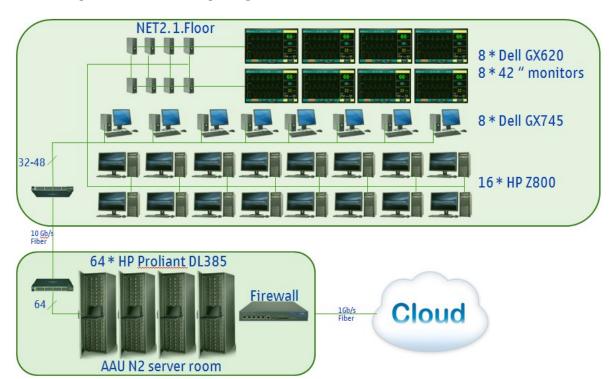




Nokia contribution

Office & Lab facilities for 1 year for approximately 10 employees.

Computer equipment, servers and R&D lab equipment.









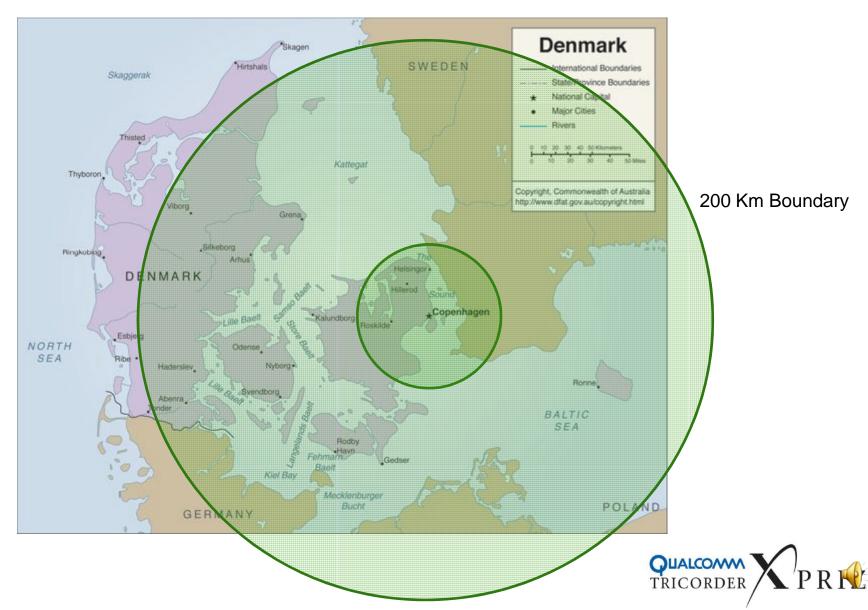
CXT purpose

- •Non-Profit organization with the aim of promoting Danish position in Tele-medicine and Tele-health (M-Health)
- •Like:
 - Mobile phone adventure in the 90's
 - Windmill adventure
- •M-Health is one of the next big growth areas.
- Democratization of health system
 - Should be part of health / Innovation / ICT policy.
- •Danish health care costs are galloping and M-Health can lead to large public savings if citizens have the opportunity to follow up on their health condition at home.
- •CXT offers a platform to communicate a political message on.
 - A lighthouse to steer the development.
- •Creation of Danish m-health cluster to create jobs and growth.

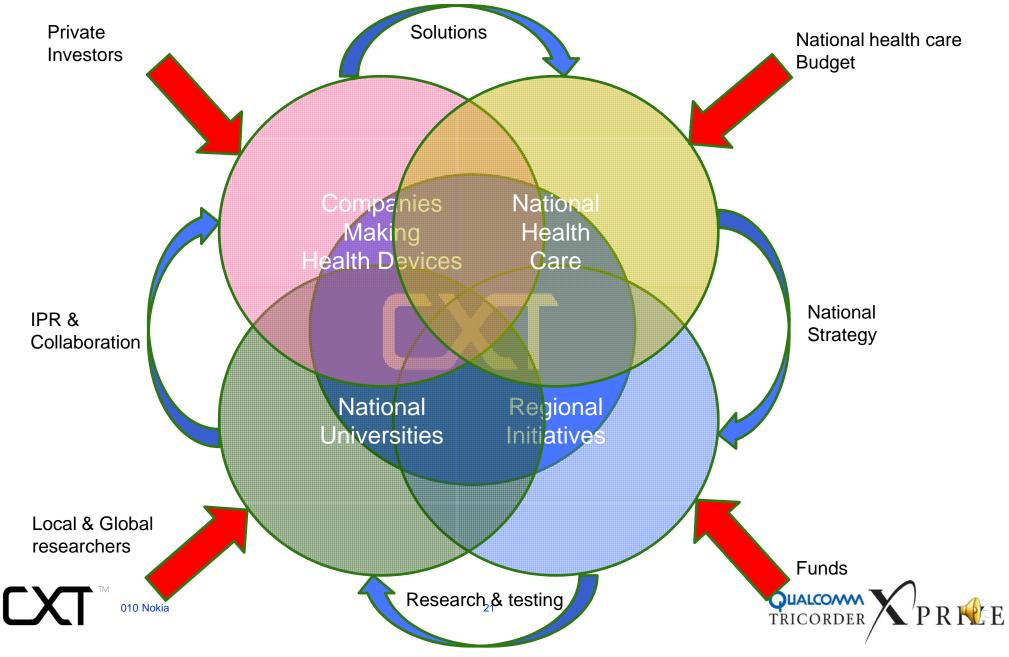




Region Øresund Mobile-health cluster potential



The Mobile-health Cluster stakeholders



Business case for Denmark

Business case for CXT	Year 1	Year 2	Year 3
Investment	12.000.000	20.000.000	20.000.000
FTEs	8	10	12
Network created (e.g. people involved in CXT)	100	300	500
Total investment	12.000.000	20.000.000	20.000.000

Aalborg	UN	Nokia
N/A	50.000.000	N/A
N/A	50.000.000 / year	N/A

Benefits - creation of spin-outs			
No. of spin-outs created (akkum.)	2	6	12
Revenue generated by new spin-outs	1.000.000	12.000.000	34.000.000
No. of jobs created in new companies (akkum.)	15	76	135
No. of jobs created in partner companies	0	35	75

50		
2.000	N/A	N/A
500		

Benefits - foreign investment			
Expected no. of foreign VC investment	0	1	3
Expected impact of foreign VC investment	0	5.000.000	15.000.000
Attracting of large foreign mHealth company	0	0	1
Number of new jobs by large foreign mHealth company	0	0	200
Expected economic impact of large foreign mHealth company	0	0	200.000.000

	N/A	
	N/A	
3	2	1
1.500	1.000	1.100
1.200.000.000	0	1.400.000.000

Total economical benefit 1.000.0	17.000.000	249.000.000
Number of new jobs 23	121	422

1.200.000.000	0	1.400.000.000
4.000	1.000	1.100

4.000.000 66.000.000 550.000.000	Potential synergies / stimulation of local economy	4.000.000	68.000.000	996.000.000
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4.800.000.000 250.000.000 5.600.000.000





CXT need's

- •Political momentum to get success in our work.
 - A position on the political agenda that ensures that we will get contact to the relevant governmental functions.
 - Danish M-Health policy.
 - Public communication to ensure that M-health is addressed.
- •Funding to attract and maintain the necessary companies.
 - Platform development funding 50 Million DKK from 2013 2015
 - Investors within M-Health products.
- •Education policy that is aligned with the development of M-health.
 - Universities driven by the national M-health requirements
- •Partners within:
 - Healthcare and sensor technology.
 - Medical Database implementation.
 - Medical signal analysis.
 - Medical diagnostics.





Contact information

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