



Toiminta-ajatus

- Kansainvälistä huipputasoa edustavan tiedon ja osaamisen hyödyntäminen yritystoiminnan, työpaikkojen luomisen ja alueellisen kehittämisen voimavarana
- Ohjelmakausi 1994-2006 päättynyt
- Uusi Osaamiskeskusohjelma (OSKE-ohjelma) 2007-2013 on alueiden kehittämislain mukainen valtioneuvoston erityisohjelma
- Sisäasiainministeriö (SM) koordinoi ohjelmaa



Problem

- Majority of the world's population inhabits in rural areas beyond reach of modern health care
- In many countries huge efforts have been put to get these people within health care services
- Malaria, HIV, TB, Dengue fever and many other contagious diseases are common in these areas
- High infant mortality is a consequence of inadequate medical intervention
- Diagnostics, which lays a basis for efficient medical intervention, is used inadequately in those areas



Problem

- ▶ Cumbersome large laboratory systems can't be adopted to these areas because they usually lack even electricity and laboratory professionals, and not to mention connectivity to national health care data systems.
- ▶ There are many POC devices available for use in out-patient purposes but in many cases they miss connectivity to any information systems, are poor in quality, require socket electricity to function, and do not enable wireless data transfer.



Opportunity

A diagnostic system that comprises of:

- User friendly operation system (low professionalism)
- Adequate and meaningful panel of analytes
- Wireless connectivity to user interfaces (mobile phones, computers etc.)
- No or very concise need for maintenance
- No need for socked electricity (battery operated)
- Data transfer onward to patient information systems
- Low cost system (initial investments & use)



What is it use for?

Effect on infant mortality

- infant mortality reduces due to more efficient intervention of medical actions – wellbeing of mothers and children increases since women need not to give so many “unlucky births”

Effect on national resources

- more efficient use of expensive medicines leaves more resources to other activities such as education etc.

Effect on patient control

- recordable diagnostic results on patient information systems gives a firm basis for efficient patient control

Do we have it?

Applicable diagnostic platform

- YES, we have it already
- ReaScan™ Diagnostic system
- www.reagena.fi

Wireless technology

- YES, ReaScan™ is already equipped with Bluetooth® technology and user interface software for mobile phones and computers
- YES, data can be uploaded to HIS or LIS



Do we have it?

Meaningful analytes

- ReaScan™ is an open system that allows measurement of variety of analytes, some of them already on markets.



What needs to be developed?

- Depending on diagnostic needs new ReaScan™ assays such as TB, HIV and malaria
- LIS? or HIS? that fits to the concept

Who are the key players?



Orion Diagnostica



ANI BIOTECH OY



Medix
Biochemica



- ▶ OSKE Health and Wellbeing and HealthBio clusters
 - Networking companies, research and public health care
 - Dr. Ilpo Kuronen (Program Director)
 - Dr. Tuula Palmen (Program Director)
 - Mr. Ilkka Vartiainen (Development Manager)
- ▶ Technology providers
 - Diagnostic companies (REAGENA, Orion Diagnostica, VTT, Medix Biochemica, AniBiotech, Magnasense)
 - Data system providers (eHIT, Mylab, Delfin Technologies)
- ▶ Piloting companies (Jyri Wuorisalo, CelAmanzi)



REAGENA
Visible Difference



Magnasense

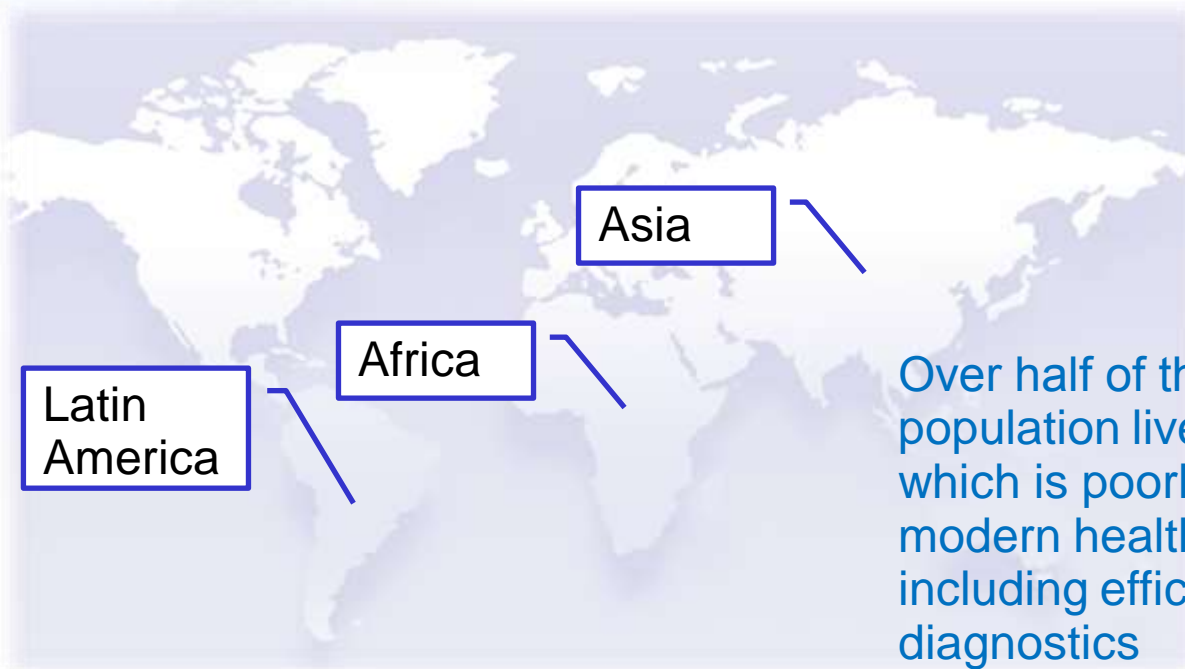
Technology for Diagnostics at Point of Care



Who are the key players?

- ▶ Consulting companies
 - Timo Airaksinen, Salivirta & Partners
 - Meria Heikelä, Finpro
 - Hanna-Riitta Kurittu (Cofisa)
 - Stephan J Lamprecht (Venture Solutions, SA)
- ▶ Research organizations
 - Mikko Korpela (Kuopio University, HIS unit)
 - Tony Bunn (MRC Innovation Centre, Cape Town, SA)
- ▶ BioSA (Center of Expertise, SA)
 - Dr. Viresh Ramburan
 - Dr. Antonel Olckers
 - Dr. Michael Pepper

Where are the customers?



Over half of the world's population lives in the area which is poorly covered with modern health care systems including efficient and adequate diagnostics

Primary target market



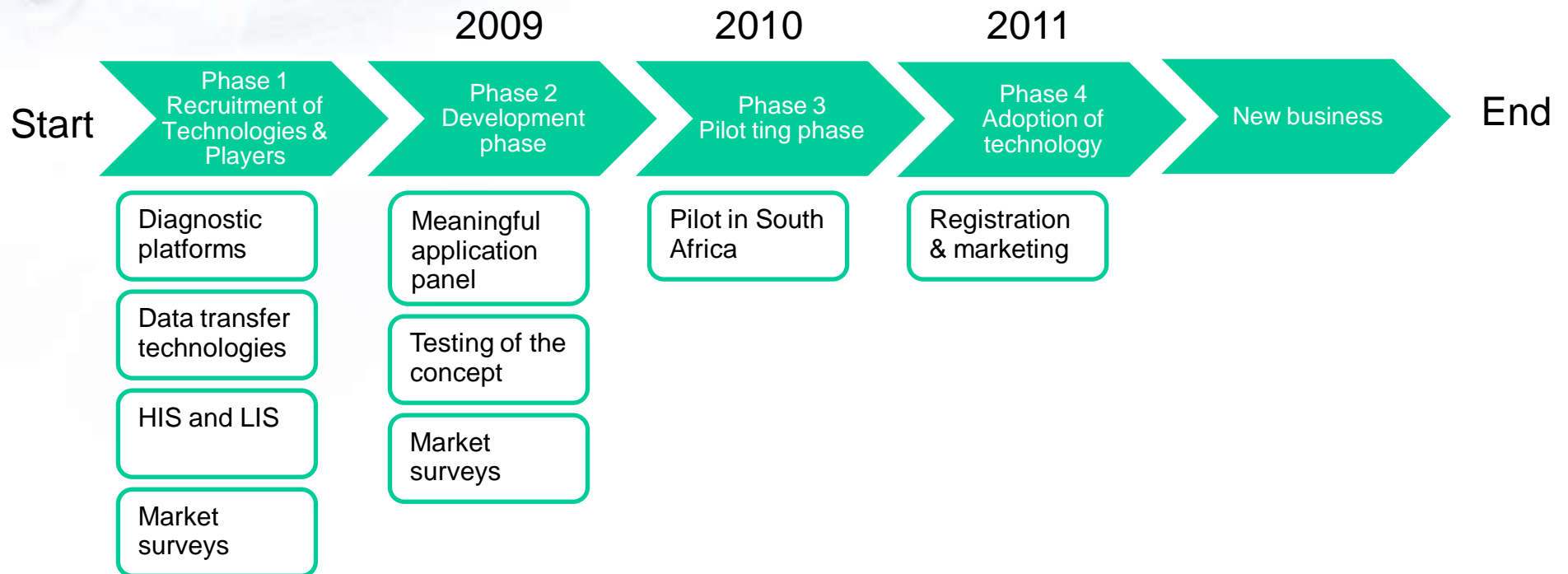
South Africa, the African Gateway
See the attachment (Trade political survey of African countries, Ministry of Foreign Affairs, Finland)
([Click here](#))



A partnering work shop in Durban, April 2008, can be regarded as project's kick off meeting



The project





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