Tumour Trace
Cancer screening and diagnosis for everyone

Innovation

“Innovation tends to become the key driver of prosperity and growth”

Innovation Clusters in Europe: A statistical analysis and overview of current policy support

http://ec.europa.eu/research/era/consultation-era_en.html
Innovation Clusters

Between 30% and 40% of all employment is in industries that concentrate, or ‘cluster’, regionally.
Innovation Clusters

Geographical concentrations of interconnected companies in a particular field that gain performance advantages through co-location.
Emerging Markets

- Nanotech
- Medicine
- NanoMed

- IoT
- Smart City
- IoT based Smart City

- Games
- Education
- Games that teach
Professor Djuro Koruga
1. From Light-Matter interaction

To

Opto –magnetic Image (fingerprint of matter)

2. From Opto-magnetic Image to Image spectroscopy

3. From NANOTECNOLOGY to Nano-magnetic spectroscopy

4. From 300,000 EUR equipment to 30,000 EUR portable device

5. From Accuracy 67% (PAP) to Accuracy 95% (TT)

6. From Two weeks wait for result to Five minutes wait for result

7. From £30 per test to £5 per test
Cancer Challenge

Over 14m diagnosed
Over 8m deaths
Costs of care > £650bn

Over 350,000 diagnosed
Over 160,000 deaths
Costs of care > £5.68bn

WHO: “Tidal wave of cancer”: 70% increase over the next two decades

“Governments must show political commitment to progressively step up the implementation of high-quality screening and early detection programmes, which are an investment rather than a cost,” Dr Bernard W. Stewart, co-editor of World Cancer Report 2014.

Screening = \( f(\text{Incidences, Cost, Accuracy}) \)
Cervical Cancer

Close to Gold Standard Accuracy

<table>
<thead>
<tr>
<th></th>
<th>Sensitivity</th>
<th>Specificity</th>
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<tbody>
<tr>
<td>PAP TT</td>
<td>57%</td>
<td>97%</td>
</tr>
<tr>
<td>PAP TT</td>
<td>95%</td>
<td>99%</td>
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- Gynecology and Obstetrics Clinic, Serbia
- 2200 samples, 516 analysed
- University of Belgrade (5 years of R&D)
- Verification of data analysis by Nottingham Trent University
- 170 samples study in Southend Hospital

Fast & Efficient

- Laboratory
- LBC
- Stained Smear
- Subjective decision

- UNstained Smear
- Objective decision

Order of Magnitude Less Cost

<table>
<thead>
<tr>
<th>Price per Test</th>
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<tr>
<td>£25</td>
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<td>£22</td>
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- £5

Screening =

\[ f(\text{Incidences, Cost, Accuracy}) \]

- 23% (77,000) less Colposcopies
- 46% overall saving
- 5% increase in QALY
The Team
Tumour Trace

Government delegation to China and India

Next Business Generation

Last stages of closing significant investment

Medicity, Boots, MTC.

Government Accelerator Money Corporations

Presentation for Round A Investment
Tumour Trace
Tumour Trace

Universities

Nottingham
Tumour Trace

Universities

India
Intellectual Property
Business Expertise