



2576-2

5th Workshop on Entrepreneurship for Physicists and Engineers from Developing Countries

31 March - 24 April, 2014

Scientists and Engineers as Entrepreneurs

Dawood Parker Melys AFS Ltd, UK.

Scientists and Engineers as Entrepreneurs

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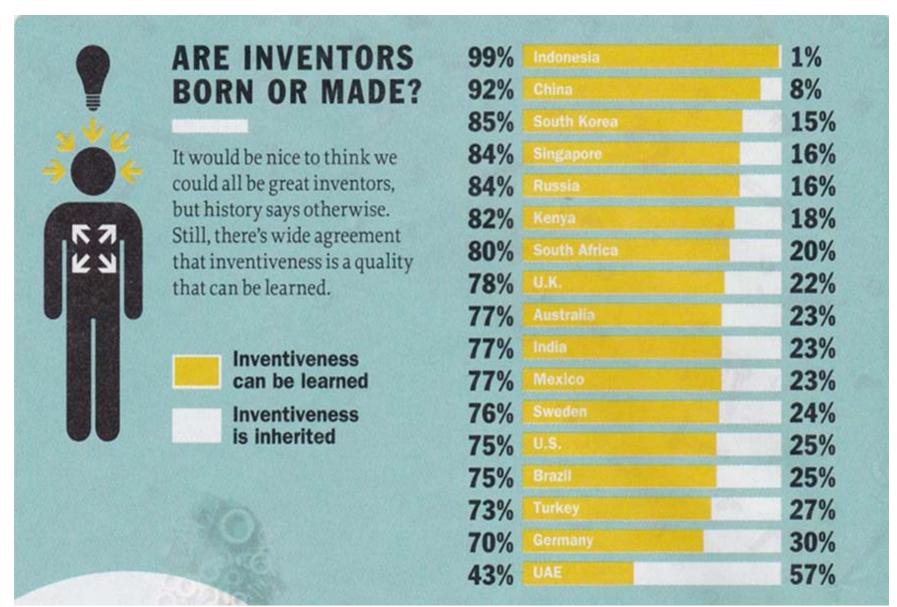
ENTREPRENEURSHIP FOR SCIENTISTS AND ENGINEERS

Trieste, Italy
March 31-April 4, 2014



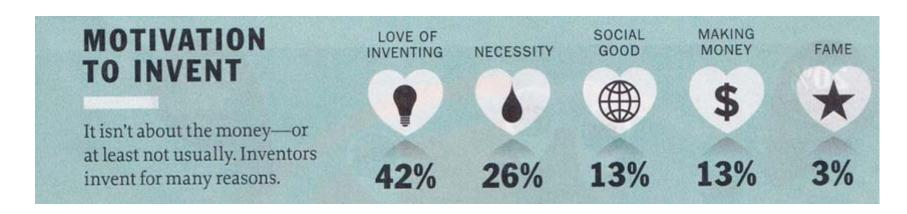
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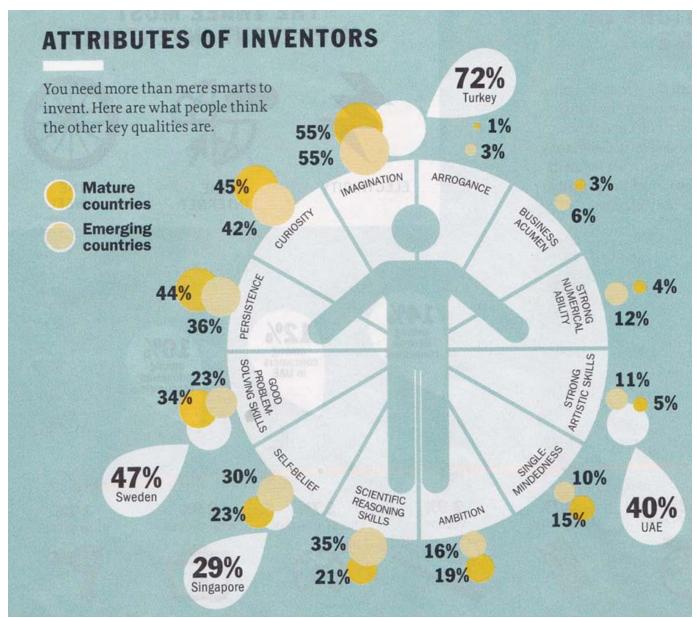


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Time Magazine, November 25, 2013



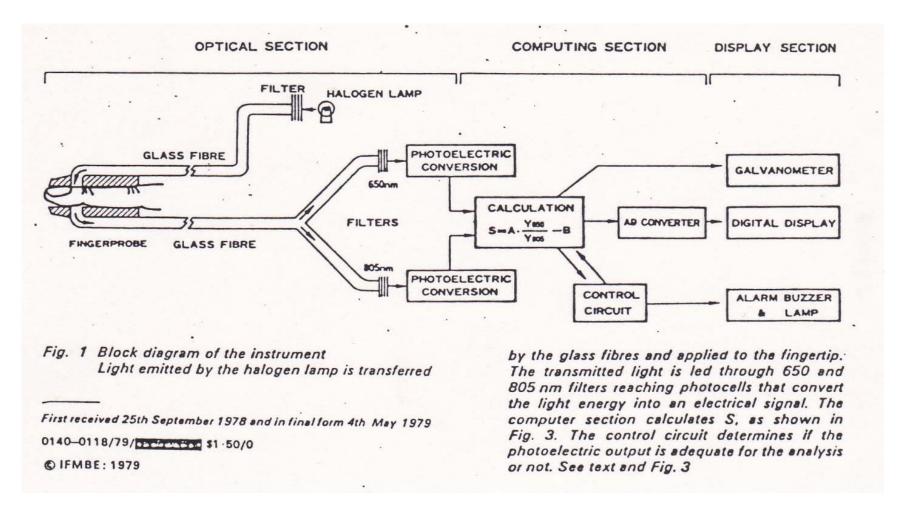
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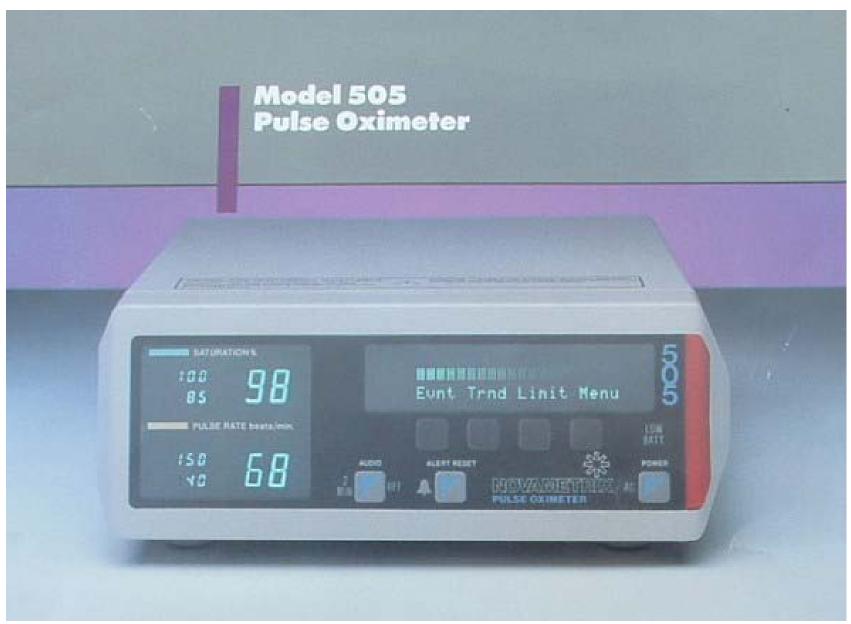
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Do you need a new idea to start a company?

Yoshiya I, Shimada Y, Tanaka K: Spectrophotometric monitoring of arterial oxygen saturation in the fingertip. Med Biol Eng Comput 1980; 18:27-32



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Incomplete Data

 Scientists and engineers are used to making decisions based on complete data.

 An entrepreneur has to make the decision to start a company on incomplete data.

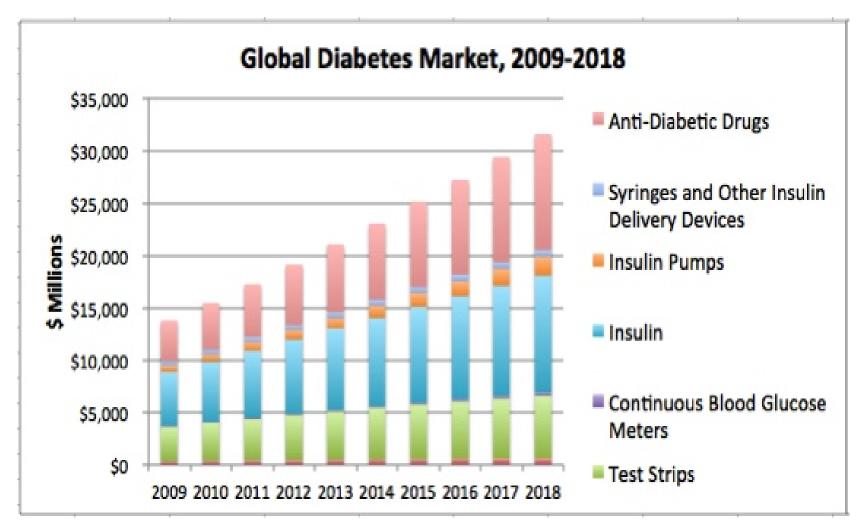
YOU HAVE TO TAKE A RISK.

Personality

Ask yourself:

- Do I enjoy being in charge?
- Can I hire and fire others?
- Can I delegate work?
- Can I motivate people?
- Can I negotiate and compromise?
- Do you have the persistence to achieve your goal?

Great Business Opportunity?



Source: MedMarket Diligence, LLC; "Diabetes Management: Products, Technologies, Markets and Opportunities Worldwide 2009-2018." Report #D510.

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SWOT Analysis

Strengths

Comfort

Convenience

Threats

Fierce competition
Stringent and demanding
FDA standards
Reimbursement

Opportunities

Very large market

Each day several are diagnosed with diabetes

No non-invasive in market at present

Vast sums of funding available to noninvasives

Weakness

Low signal-to-noise ratio
Need for calibration

2008 Frost & Sullivan

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Technology Push versus Market Pull

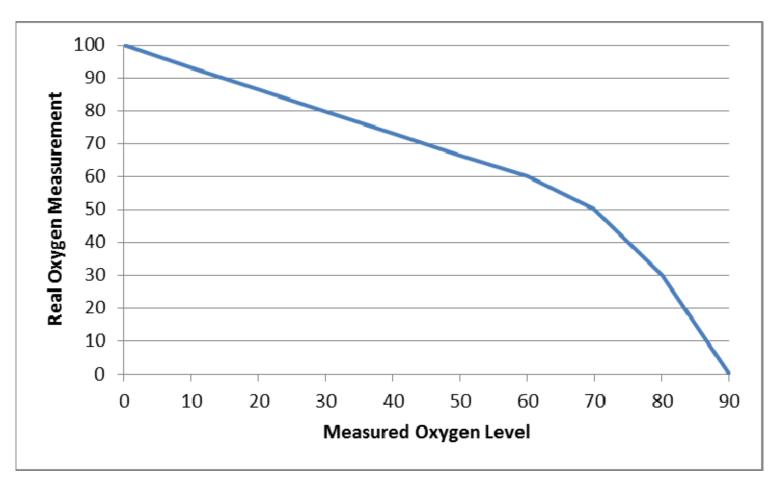
Technology push?



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Research Without End

Don't worry about non-linearity...



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Your Solution: Is it commercially viable?

Did you solve the problem:

within the technical constraints

AND

within the commercial constraints

Regulatory Compliance

- Record your designs and all changes to them right from the start.
- Consult experts in local and international compliance regulations. They can advise you on ISO standards (International Organisation for Standardisation) and IEC standards (International Electrotechnical Commission).
- Remember that if you export you will need to comply with the regulations of the country you are exporting to – e.g. the Food and Drug Administration (FDA) in the USA.

What is Your Invention Worth?