Info Day - Saúde, Alterações Demográficas e Bem-estar (DSI) 20 Novembro 2014

Patient Innovation

www.patient-innovation.com

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What do they have in common?

- World Wide Web
- Personal care and hygiene: protein-based shampoo, 'Renova black toilet paper"
- Sports equipment and apparel: sports bra, mountain bike, skateboard, kitesurfing
- Food: chocolate milk, Gatorade
- Office: post-it
- Banking services: sweep account, payroll, mobile banking
- Hospitality services: internet in room









In retail banking – consumers were the first developers of 84% of the retail banking services banks offered in 2010

Service Innovation	Individual User developed	Bank developed	Jointly developed	Total
Total	84% (21)	8% (2)	8% (2)	25

Oliveira and von Hippel 2011



Patient Innovation

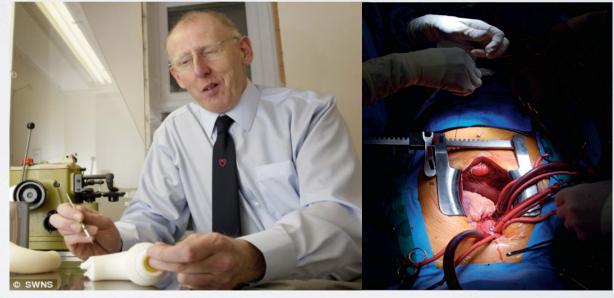
SHARING SOLUTIONS, IMPROVING LIFE

www.patient-innovation.com

What are the limits of UI?

Ф SWNS.com

British engineer
Tal Golesworthy
designed own
heart valve implant
and saved own Life
(2004)



Herb Kern & Seasonal Affective Disorder (SAD)

- Realized that he would get depressed during winter and discovered that the reason was lack of natural light
- Collected data during 15 years
- Contacted the NIMH and was ignored
- After some years... Dr Norm Rosenthal at NIMH (also a SAD patient) got interested in his case
 - He validated the knowledge and named the disease
 Suggested the light therapy



Low frequency generator for bronchial drainage

Louis Plante (CF patient) had to leave a concert due to excessive coughing (seating in front of speakers)





Being a skilled electronics technician, he developed a device that generates low frequency vibration

He founded DYMEDSO







3D-printed prosthetic hand

Richard van As from South Africa asked Ivan
Owen on the opposite side of the planet
to help him design and build a low-cost
prosthetic hand for him after losing four of
his fingers in a sawing accident. Ivan
accepted the challenge and together they
also managed to develop a low-cost
prosthetic hand for kids

<u>Diffusion</u>: They have published the design on Makerbot's Thingiverse site as a digital file that can be used to produce the parts in a 3D printer





The Problem

Rate of innovations by patients is significant <u>but</u>
 could be increased (patients could use some help from others)

• Innovations rarely diffuse, innovators don't have incentives to diffuse and face a lot of resistance

A platform increases innovation:

The fraction of people innovating within "innovation communities" is 3 to 6 times higher than the fraction who innovate as isolated individuals (comparison with national surveys)

Innovation within communities	% innovating	
"Extreme" sports equipment (Franke & Shah)	37.8%	
Mountain biking equipment (Luthje, Herstatt, vH)	19.2%	



Our Proposed Solution

An international, multilingual and non-profit platform and social network to facilitate the sharing of innovative solutions developed by patients or caregivers of any disease

(originally this was going to be just a platform for a research experiment)



"We are very excited about this project"



Patient Innovation

SHARING SOLUTIONS, IMPROVING LIFE





Home

Patient Innovations

How It Works

Who we are

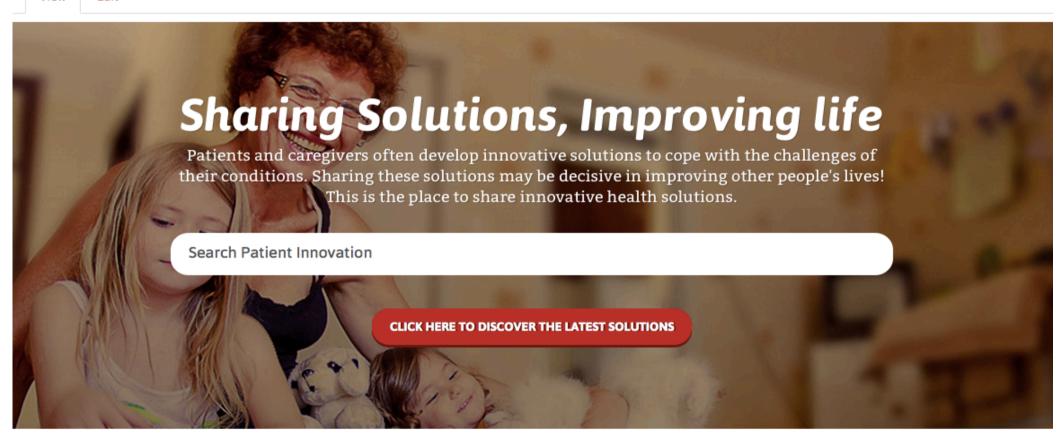
FAQs

Profile -



View

Edit



Discover more through our selected categories



How are we organized?

Advisory Boar



Aaron Ciechanover Professor, Technion-Israel Institute of Technology Nobel Laureate in Chemistry



Lee FlemingProfessor, University of California, Berkeley



Maria Carmo-Fonseca



Carliss Baldwin

James Boyle



Alexandre Castro Caldas





António Coutinho



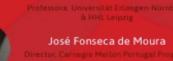
Joi Ito



Lawrence (Larry) Lessig



Kathrin Möslein







Erich R. Reinhardt



Aleda Roth





Eric von Hippel Professor, MIT Sloan School of Management



Richard Roberts Chief Scientist, New England Biolabs Nobel Laureate in Physiology or Medicine



Robert Langer

Professor, MIT

Katherine Strandburg Professor, New York University School of Law



Pedro Oliveira Professor, Católica-Lisbon Project Leader and Principal Investigator



Helena Canhão
Professor of Rheumatology, Lisbon Medical School, University of Lisbon and CHLN
Chief Medical Officer



Leid Zejnilovic
Research and Operations Officer



Pierre Gein Fundraising and Finance Officer



Patrícia Pereira



Sofia Esménio



Salomé Azevedo



Tiago Ramalho



Some numbers

- About 3000 registered users (BUT mandatory registration was removed in May)
- 200 solutions that passed screening (about I per day)
 - About half are rejected at "screening" (some go to Forum)
- 5000 followers on Facebook
- Signed collaboration protocols with more than 20 patient associations in USA, UK, Australia, France, Malaysia, Portugal, Serbia, Croatia, Brazil, Bosnia
- Launched PI2.0 on Oct. 29th



1 INNOVATION AWARDS

Patient • Caregiver • Collaborator

February 6, 2015 Lisbon, Portugal

The Patient Innovation

Platform is a non-profit international and open venue for patients and caregivers of any disease to share their innovations with the community.

Patient Innovation is endorsed by reputable scientists, prestigious institutions and worldwide patient associations.



www.patient-innovation.com

Anyone can participate!

If you have heard of a solution developed by a patient or caregiver, please share it! Have you developed a solution, treatment or device that helped improve your health or the health of someone else?

By sharing it with the Patient Innovation community you help others and qualify to win our awards.

- 1. Register on the top right of the Patient Innovation homepage
- Share your solution using text, pictures, videos, tags, etc. and click "Post"
- 3. You are done. Thank you for sharing!

We have three Award categories:

- Patient You are a patient and you have developed a solution to improve your health condition
- Caregiver You helped a loved one to improve his/her own health condition
- Collaborator You contributed to improve the condition of a person/group that was outside your circle of family and friends.



Where do we stand?

Technology / international platform

- Platform that allows sharing of patient-developed solutions (video, pictures, rating, comments, etc)
- Automated translation across most common languages (through Google translate)

Content from

- Patients, Caregivers, Collaborators
- Contacting patients and caregivers (through patient associations), identifying if they innovated

Legal

- Baseline done with the lawyers and working on the 2nd iteration
- Project filed and approved by the Portuguese Data Protection Agency



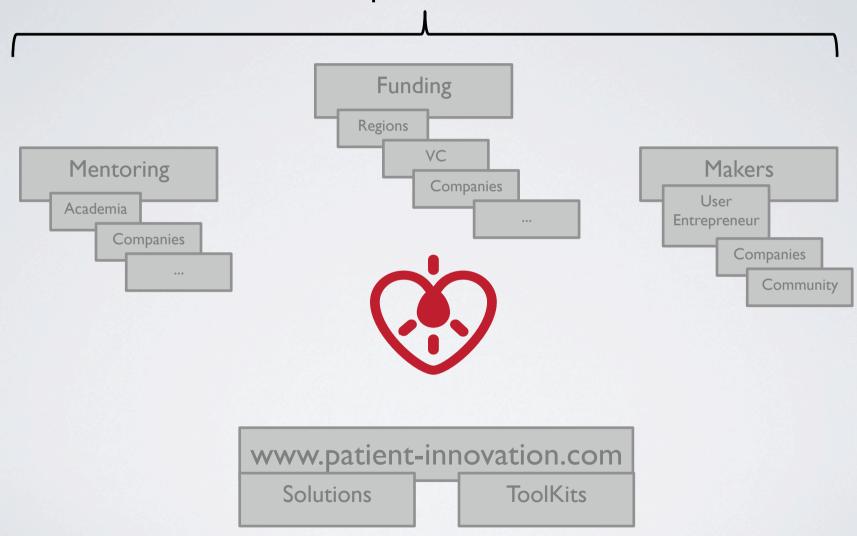
Moving ahead with H2020



Our vision for H2020

- Fostering the exchange of ideas/innovations across geographic boundaries to reach a larger community and identify a higher number of solutions
- Gathering facts/evidence from the community to gauge the impact of User Innovation in Health for better decision making (at personal or institutional levels)
- Serving the patients that don't have yet a solution available on the market for their condition
- Developing alternative collaborative approach to tackle the steady rise in health spending

Integrated Ecosystem to Maximize the Impact of the User Innovations





What are we looking for?

- Mentoring
 - Entities (companies, incubators, etc...) interested in mentoring solutions to maximise the impact
- Funding
 - Entities interested in supporting the cost of moving this solution to market.
- Makers
 - Parties with the skills to prototype/build the solution
- Platform
 - ICT partners
 - IP specialists
 - Support to develop the toolkits

Focus on ICT10-2015 but open to other calls