How digital innovation can shape poverty reduction and healthy lives in the future

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It’s not about the technology per se

It’s about the principles that these technologies support, and the leverage that these technologies can bring.

1. **TRANSPARENCY**
2. **PARTICIPATION**
3. **DEMOCRATIZATION**
4. **CO-CREATION**
Transparency
Trend: Open data

Open Budgets Portal

The Open Budgets Portal is the first effort to create a one stop shop to budget data worldwide with the hope of bringing visibility to efforts in this field, facilitate access and promote use of spending data, and motivate other countries into action.

Transparency
Transparency: A USP

ARTS
We have worked with Wasps Studios since 2004 providing loans to support the refurbishment of studio properties in Edinburgh, Glasgow, Irvine, Aberdeen, Newburgh and Kirkcudbright.

HEALTHCARE
The Lamports provide holidays on their family-owned Blaen Wern Farm for children and adults with learning difficulties and disabilities.

ENERGY & CLIMATE
Triodos Bank has supported Ecotricity since we helped finance their first turbine, at Lynch Knoll in Gloucestershire, in 1996.

ECO DEVELOPMENT
The Knoydart Foundation has established a sustainable community on the west coast of Scotland, developing six residential properties, a backpackers' hostel and operating a hydro-electric scheme.

SOCIAL HOUSING
Giroscope is a social enterprise that renovates empty properties to provide affordable housing for people in Hull.

ORGANIC FOOD & AGRICULTURE

Triodos Bank
Make your money make a difference
Enormous costs: Potential liability

Results-based financing of health
Leverage these data: Enormous opportunity

1 Benchmark: Leverage the power of social cues, social norms, recognition to improve the quality of health care provided.

Star system doubled condom sales

Positive deviance and malnutrition

Transparency
Leverage these data: Enormous opportunity

2 Early detection: Detect laggards or inequities, and prioritize actions accordingly, inform and inspire social movements/action

**Inequitable resource allocation in Benin: RBF 2014 $/cap/year**

- ALIBORI
- ATACORA
- ATLANTIQUE
- MONO
- OUÉME
- ZOU

$/capita/year
3 Experiment and evaluate: Improve the efficiency and effectiveness of health care information, delivery

Causal relationships

Majority of medical interventions are randomized. Minority of interventions in health care delivery are randomized

Hospital management
Self-care
Who and how care is delivered

Transparency
4 **Heuristics**: Diagnosis and treatment based on machine learning and large population data

**Predictive problems**

Low value health care is not just due to the standard moral hazard explanation but also due to *mispredictions*.

Some things that seem unpredictable may actually be more predictable than we think using the right data and empirical tools.
# Self-critical organizations: Nimble, flexible, learning, impact-driven organizing

## Themes
- Health Care

## Behaviours
- Increasing take-up health insurance

<table>
<thead>
<tr>
<th>Country</th>
<th>Start date</th>
<th>Approach</th>
<th>Rating (June 2011)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benin</td>
<td>June/09</td>
<td>Introduction of universal health care system</td>
<td>★★★</td>
</tr>
<tr>
<td>Senegal</td>
<td>Jan/08</td>
<td>Scaling up community based health financing</td>
<td>★★★★★</td>
</tr>
</tbody>
</table>

...
Participation
Trend: Patient generated data

patientslike.me*

Live better, together!™
Making healthcare better for everyone through sharing, support, and research

Join now

(it's free!)
Crowd-funding

What is Spacehive?
Spacehive is a crowdfunding platform with a purpose: to make it as easy as possible for as many people as possible to bring their civic environment to life.

Whether you want to transform a playground, bring an old building back to life, save up a park, or create something completely new, Spacehive enables people to attract support for projects that make places distinctive, lively and loved.

We do this by providing tools that help people to develop their project ideas, get noticed by crowds of people, companies, councils, and the media, and attract funding to make great projects happen.

<table>
<thead>
<tr>
<th>Total value of funded projects</th>
<th>£4.7M</th>
</tr>
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<tbody>
<tr>
<td>Average value of projects</td>
<td>£29.3K</td>
</tr>
<tr>
<td>Campaign success rate</td>
<td>44%</td>
</tr>
<tr>
<td>Cities, towns and villages with Spacehive projects</td>
<td>68</td>
</tr>
</tbody>
</table>

Fund healthcare for people around the world
16,992 people have funded healthcare for 7,992 patients in 23 countries.

Support a patient
Direct feedback
Community oversight and monitoring
Democratizing
3D Fabrication

Democratizing
Lead user innovation

Of university surgeons responding to a survey, 22% reported developing or improving some item(s) of medical equipment.

Lead user surgeons expected that solutions to problems encountered in their own practices where the primary benefit.

The innovations had commercial value: 48% percent were soon or would be marketed by manufacturers of medical equipment.

Democratizing
Citizen innovation increases social welfare:

Citizen innovations can **compete with** producer products and can force down producer prices.
Co-creation
“Health isn’t something that an be handed to people, it is a state that they must produce themselves by interacting with a health care system... Providers and recipients co-create health.”
Last Mile Problem: Push for collaboration

Health technology
Part 1: Bridging the last mile in physical terms
Part 2: Bridging the last mile in psycho-social terms

Health impact improvement

Limited solution mix
Extended solution mix

Co-creation
HIV prevention: Sugar daddies

Co-creation
Collaborative clinical reference tool

“For HCP’s taking a risk on the right decision is more costly than the status quo”

HCP’s put on their own protocols and review and rate others’ by up-voting or down-voting

HCP’s are able to crowd-source the real time consensus of the medical community

HCP’s have access to experience-based medicine, fitting into their workflow
3D Glasses
### Five key characteristics of a collective impact approach

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Common agenda</td>
<td>Real progress depends on important actors from <strong>different sectors, disciplines and organizations</strong> – corporations, civil society associations, government agencies, academics, activists, and hybrid organizations like social enterprises - working together towards a <strong>common agenda</strong>.</td>
</tr>
<tr>
<td>Shared measurement</td>
<td>Real progress depends on working hard toward the same goal, <strong>measuring results consistently across all differentiated approaches, increasing cross-sector alignment and learning</strong>. This also helps participants to hold each other accountable.</td>
</tr>
<tr>
<td>Mutually reinforcing activities</td>
<td>Participants must be <strong>differentiated</strong> while still being coordinated through a <strong>mutually reinforcing</strong> plan of action.</td>
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<tr>
<td>Continuous communication</td>
<td>Consistent and open communication is needed across the many players to build <strong>trust, assure mutual objectives</strong>, and create <strong>common motivation</strong>.</td>
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<td>Backbone support</td>
<td>Creating and managing collective impact platforms requires a separate organization(s).</td>
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</table>
Thank you –

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