

makerSQR

Putting life to Smart City project portfolios

Stefan Fazekas, Business Development

http://makersqr.com

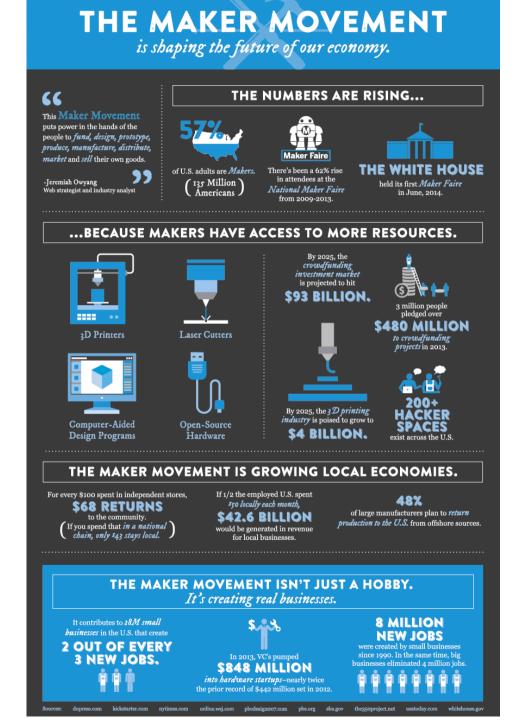
REAL CORP Hamburg, June 2016

Maker Movement Numbers



- 135m US adults are 'makers' doing craft activities
- by 2017 50% of IoT solutions will be provided by startups no older than 3 years (gartner)
- maker fueled businesses pump \$29bn into economy per year
- by 2017 3D printing market will hit \$5.7bn (forbes)
- crowd funding: >\$5bn total ever, \$93bn by 2025 (world bank)
- Maker Faire: 131 events worldwide (2014), x10 visitors since 2009
- 550+ Fab Labs in 40 countries // Techshop expanding to Europe
- President Obama hosts Maker Faire White House (2014) & 'Week of Making' (2015)

More Facts



maker

SOR

© The Grommet

makerSQR Prosumer

collaboration with the hidden gems



Market

- maker, do-it-yourself, open research communities
- private enthusiasts, tinkerers, inventors, hobbyists
- students // recovering academics
- unemployed people
- retired people, increasingly ageless and connected
- mooc customers // gain advantage from new skills
- non-mainstream sciences

Product

- freemium pricing model: Content is public (free) or private (paid)
- no geographical limits with matching and visibility

makerSQR Enterprise

adopt the spirit of the maker movement to the corporation

Market

- corporate innovation process

 optimization (tools & methods for
 ideation mostly don't care about
 succeeding processes like sourcing)
- enterprises seeking easy `soft start' into open innovation
- enterprises seeking new way of sourcing beyond limits of vertical organizations and employee skill sets
- (open) science & research labs
- \$1.6 trillion (2014) global r&d market

Product

- saas or on premise
- classify specific content as public or private, enables open innovation sourcing in any grade from internal use only to fully public
- matching service includes classified content
- on premise data security: no sensitive data outside company infrastructure



makerSQR Regional

make cities and regions even smarter



Market

- smart city / region initiatives & councils for local economy boost
- local communities
- governments // disaster recovery (fema) // cdc
- universities // schools
- all makerSQR prosumer audiences with significant local focus and desire for individual gui design

Product

- global scope, local focus
- optional limit for geographical availability
- individual gui design // selectable subdomain

maker

 matching service includes content outside region

Personal Use





- access to projects previously out of scope
- do meaningful with time, tools & passion
- get individual education roadmap out of moocs, classes, hands-on
- no access barriers: trust on experience rather than certificates
- no topic barriers: no focus on mainstream natural sciences
- 'soft start' into maker movement // adjustable involvement
- enlarge public audience to demo achievements

Makerspaces





- provide added value for existing members
- attract new members // propose resources
- extend own & member's scope for resource acquisition
- improve utilization of tools & classes
- identify specialized local demand
- create new & more hackerspaces // identify best locations



- access to crowd resources // identify talent
- `soft start' into open innovation // selectively publish content
- open innovation resource management
- offer seasonally underutilized resources
- mixed internal use & crowd mode
- better resource evaluation based on track record // ratings

Education Providers

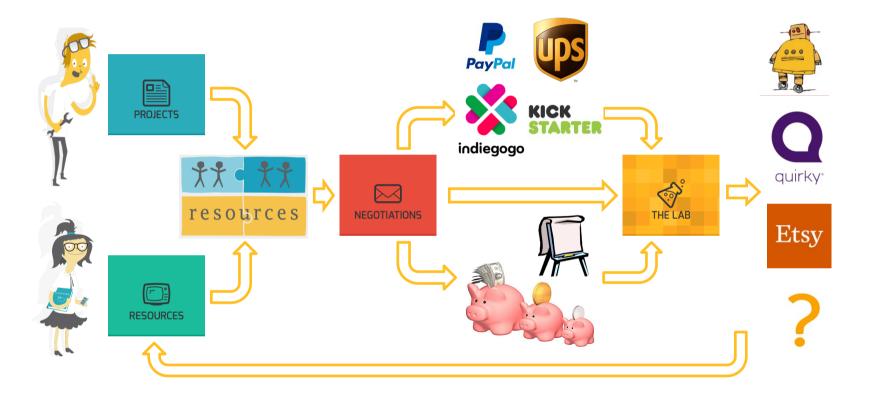




- propose matching & qualified education to users
- create individual education roadmaps for users
- attract corporations to create moocs for open innovation
- propose physical classes, workshops, hands-on training
- provide collaboration roadmap for completed classes

Business Process





Matching algorithms



The Cortical Engine for Processing Text provides the system with language intelligence through three main building blocks:

- The Retina
- The Expression Engine permits to create Boolean expressions using words based on their meaning. For example, it allows to state the equation Jaguar - Porsche = Tiger.
 Operators are AND, OR, XOR, NOT, SUB.
- The Similarity Engine allows to compute the semantic distance between any two words.
- And additional modules like:
- Semantic Fingerprinting
- Disambiguation: decomposition of any word into its senses.
- Text: creation of document fingerprints, semantic document slicing and keyword extraction.

Matching algorithm more on learning algorithms What is a semantic fingerprint?



A human fingerprint is the biological identity card of a single person. There are no two identical fingerprints, which makes them an ideal identification criterion. A semantic fingerprint is the identity card of a single concept. It characterizes in a unique, descriptive way the meanings associated with that concept.

Pictures and audio recordings are traditional semantic representations that capture different dimensions (visual, audio) of the same concept. You'll see a picture of a jaguar or hear its growling and you'll immediately know that you are looking/listening to a feline. But what about the word "jaguar"? Without the help of the context, there is no way to know whether the text is about felines or cars.

Our Semantic Fingerprinting method enables the creation of a unique semantic fingerprint for any word, any document, and in the near future even for any entity that can be described with natural language. The big difference to conventional semantic systems is that the conversion of words into their semantic fingerprints through cortical.io's Retina is automated. There is no need for costly, time-consuming manual intervention anymore.

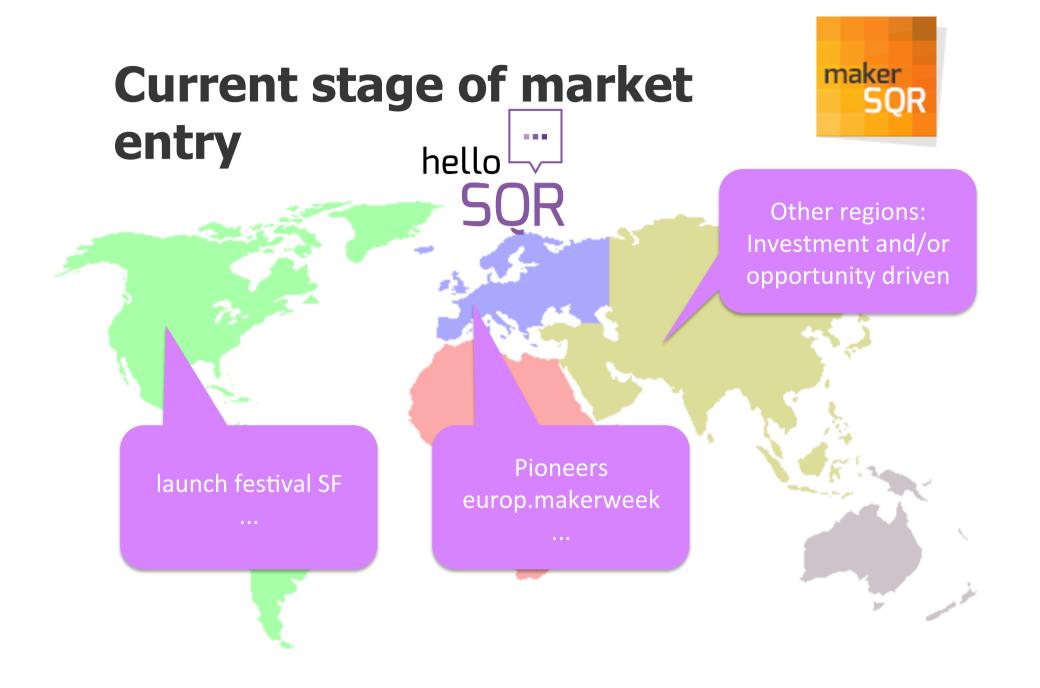
The invention of cortical.io's Retina could revolutionize the search and analysis of text-based information, not only because of its transparency and simplicity of use, but also because of its small footprint: huge amounts of text – structured and unstructured- can be processed with moderate computational power.

Smart Programs

Focus areas in Smart Cities

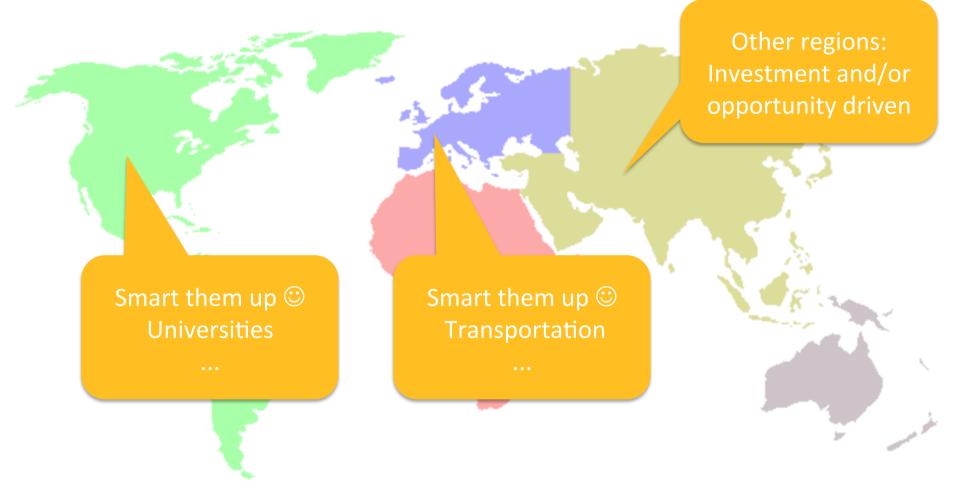






Current stage of market entry







'The reality is that most of the world's smartest people don't have the right credentials. They don't speak the right language. They didn't grow up in the right country. They didn't go to the right university. They don't know about you and you don't know about them. They're not available, and they already have a job.'

Chris Anderson, Author of 'Makers – The New Industrial Revolution'