EACH TIME WE GATHER AROUND THE TABLE, WE HONOR THE PAST, EXPERIENCE THE PRESENT. AND PREPARE FOR THE FUTURE.

by IFTF





Food is a global language.

Being a highly interdisciplinary sector, the first commodity and a primary form of cultural expression, it joins people, industries and countries.

Food players are pioneers in taking care of something more than profit: their choices can have strong impacts on human health, economic growth and world sustainability.



The question is:

How Might We strike the magic balance between people needs and the environment?

The challenge is turning constraints into business.



HUMAN CENTRED INNOVATION EVENTS SHARING KNOWLEDGE INTENSIVE INNOVATION PROGRAMS



HUMAN CENTRED INNOVATION EVENTS

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bibimbap: a new human centered innovation tool

A real marathon of 48 hours with the objective of examining, innovating and changing well-established paradigms in the food system.

A model of human centered innovation which arises from tech hackathons, so renowned in the Silicon Valley, to create a new process of innovation, a method of cognitive investigation, of in-depth analysis and co-creation of value, which will involve students from different fields of specialization. This mix is necessary in order to avoid stagnation and foster blending.

The Bibimbap (which means "mixed rice" in Korean) makes the context and the content the two main variables of change. It will follow educational objectives which will value the heterogeneous knowledge of the students and professionals joining the event. In this way, the Bibimbap wants to experiment a model that could be used by entrepreneurs and policy makers for the creation of knowledge, innovation and knowhow, both theoretical and practical.

The "game" will be led by keywords such as green, design, food and tech. This will trigger a two-day brainstorming exercise which will end with the creation of projects aiming at innovating the traditional paradigms and to a building a new possible future in the food sector.

the concept

Mix different ingredients together. Transform them through a process of meeting, in which it is the context, the content that triggers the change. Every culture has a particular way to cook vegetables (the skills) through a specific cooking technique (the context).

Starting from this culinary metaphor, we are planning a speed hacking model (Bibimbap, 비빔밥 <u>in Korean</u>) based on a 4 step process: gather, peel, chop, cook.

HUMAN CENTRED INNOVATION EVENTS

METRICS

How can we use

food security and

health as measures

of accountability?



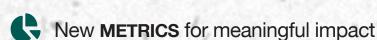
Consider these five innovation zones to discover ways to shape a better food system for all. For each zone, we point to...



Y New organizational and thinking MODELS



Emerging **TOOLS** to enable change



Ways to engage with and focus on **PEOPLE**

Choose an entry point,

MAKE THE FUTURE!

GATHER ideas, data, information, and a team.

PEEL back the layers of complexity and map the network of stakeholders and potential impacts.

CHOP through existing assumptions and move different pieces of your idea around. What new partnerships can you form? What gaps can you fill?

COOK your idea—let it simmer. What new flavors emerge? What's missing? Ask others to taste your creation and then go back through the process to make it even better!

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How can we ensure food safety while also creating scale-appropriate regulations?

Can participatory platforms enable collaborative food governance and cross-border cooperation?

What new to account for the environmental and social costs of our food?

MODELS

How can we activate a diversity of production methods to ensure a diversity of foods including open-source and biosynthetic approaches?

RESILIENT

PEOPLE

How can we rethink

local production and

distribution systems to

truly enable food

sovereignty?

TOOLS

X

How can we use sensor networks and coordination technologies to reduce waste?

GOVERNANCE

METRICS

How can we track

the sharing of food,

knowledge, and

resources as an

indicator of food

system strength?

PEOPLE

BETTER FOOD

What potential do citizen reporting and citizen science have for shaping food policy?

MODELS

How can we ensure new and needed nnovations still honor culinary heritage?

CELEBRATED

PEOPLE

How can we restore food, land, and well-being as global public goods?

MODELS

How can public squares, bus stops, and schools be repurposed and redesigned for food production?

TOOLS

What advances in infrastructure can ensure physical, financial, and social access to markets?

What new technologies might augment the social and sensory experiences of eating?

TOOLS

TOOLS

How will understanding of the microbiome and neurogastronomy create pathways for promoting individual and collective health?

How can the culinary and medical communities partner to promote wellness and treat illness?

PEOPLE

METRICS

Can mapping and ensure food access and reduce hunger?

STRONGER ECONOMY

METRICS

In what ways can

food entrepreneurship

increase equity in local

economies, and how

can we measure

impact?

MODELS

What new business

models can encourage

reciprocity, open-source

solutions, and

entrepreneurship?

PEOPLE

How can we aggregate microcontributions to create new forms of value and bottom-up change?

INSTITUTE FOR THE FUTURE

FUTURE FOOD INSTITUTE

the future. better food governance resilient ecosystem celebrated cultures food secure cities stronger economy

RETHINK FOOD

To Remake the World

To Remake the World

Food is the nexus of society. With

connect with nature. We meet our

gather around the table, we honor

the past, experience the present,

importance of thinking about the

present a call to rethink the food

breakthroughs in personal health

rooftop aquaponics, now there are

unprecedented opportunities for all

of us to remake the world through

food. Now is your chance to make

monitoring to the sprouting of

system that we cannot ignore. From

and prepare for the future. The

future has never been greater.

Today's planetary challenges

physical needs and nourish creativity

food we embody our values and

and community. Each time we

FOOD SECURE

data-driven approaches

MODELS

TOOLS

FIVE INNOVATION ZONES TO REMAKE THE WORLD THROUGH FOOD

METRICS

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FIVE INNOVATION ZONES TO REMAKE THE WORLD THROUGH FOOD

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CELEBRATED

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How can we track the sharing of food, knowledge, and resources as an indicator of food system strength?



MODELS

How can public squares, bus stops, and schools be repurposed and redesigned for food production?



METRICS

How can we use

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iocai production and distribution systems to truly enable food sovereignty?



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PEOPLE



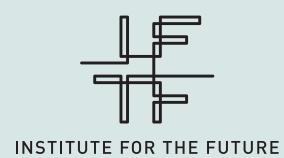
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METRICS

Can mapping and data-driven approaches ensure food access and reduce hunger?



SHARING KNOWLEDGE

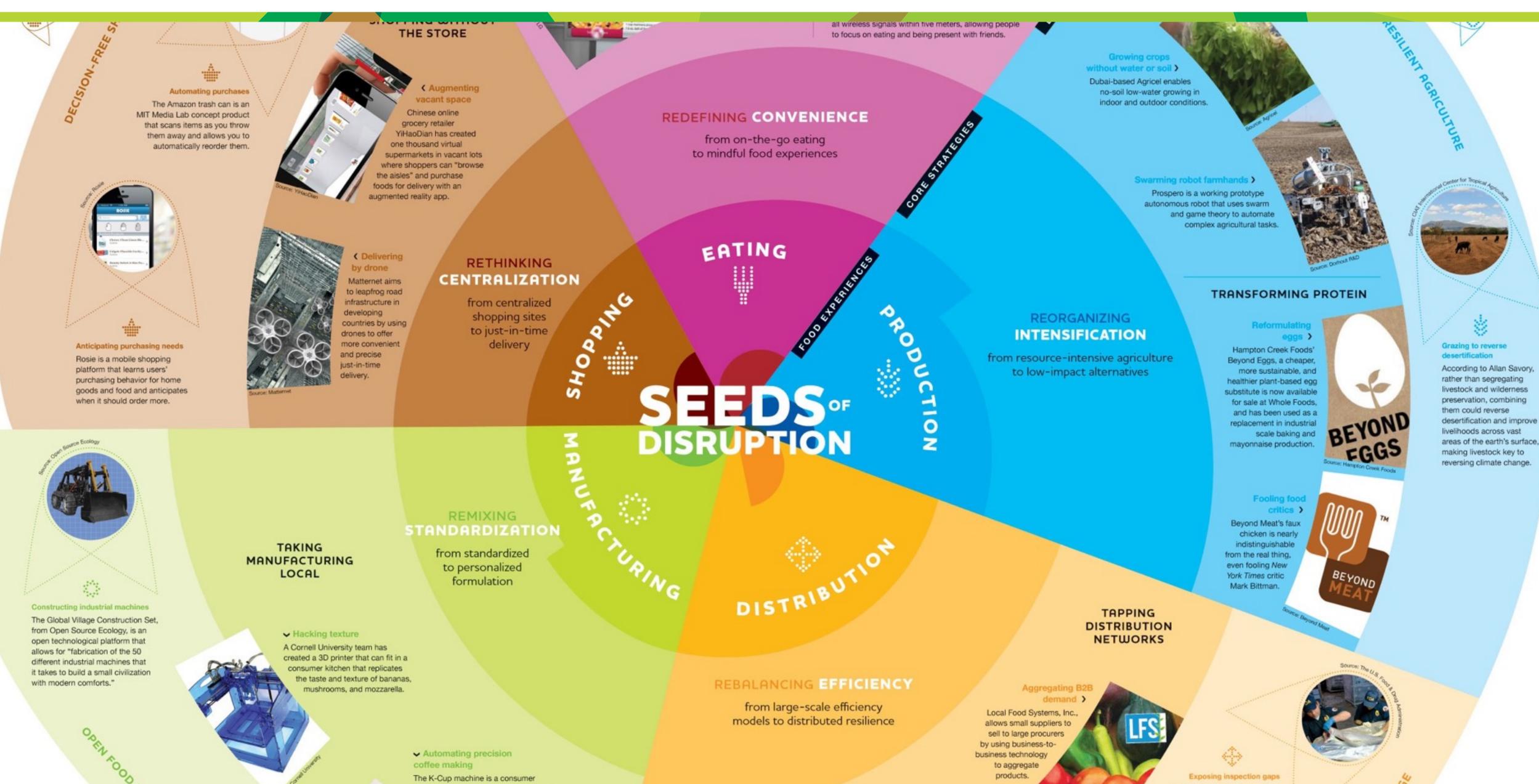
device that precision brews a single cup

of coffee, tea, hot chocolate, or other



In 2011, the FDA inspected just

6% of domestic food producers







indistinguishable

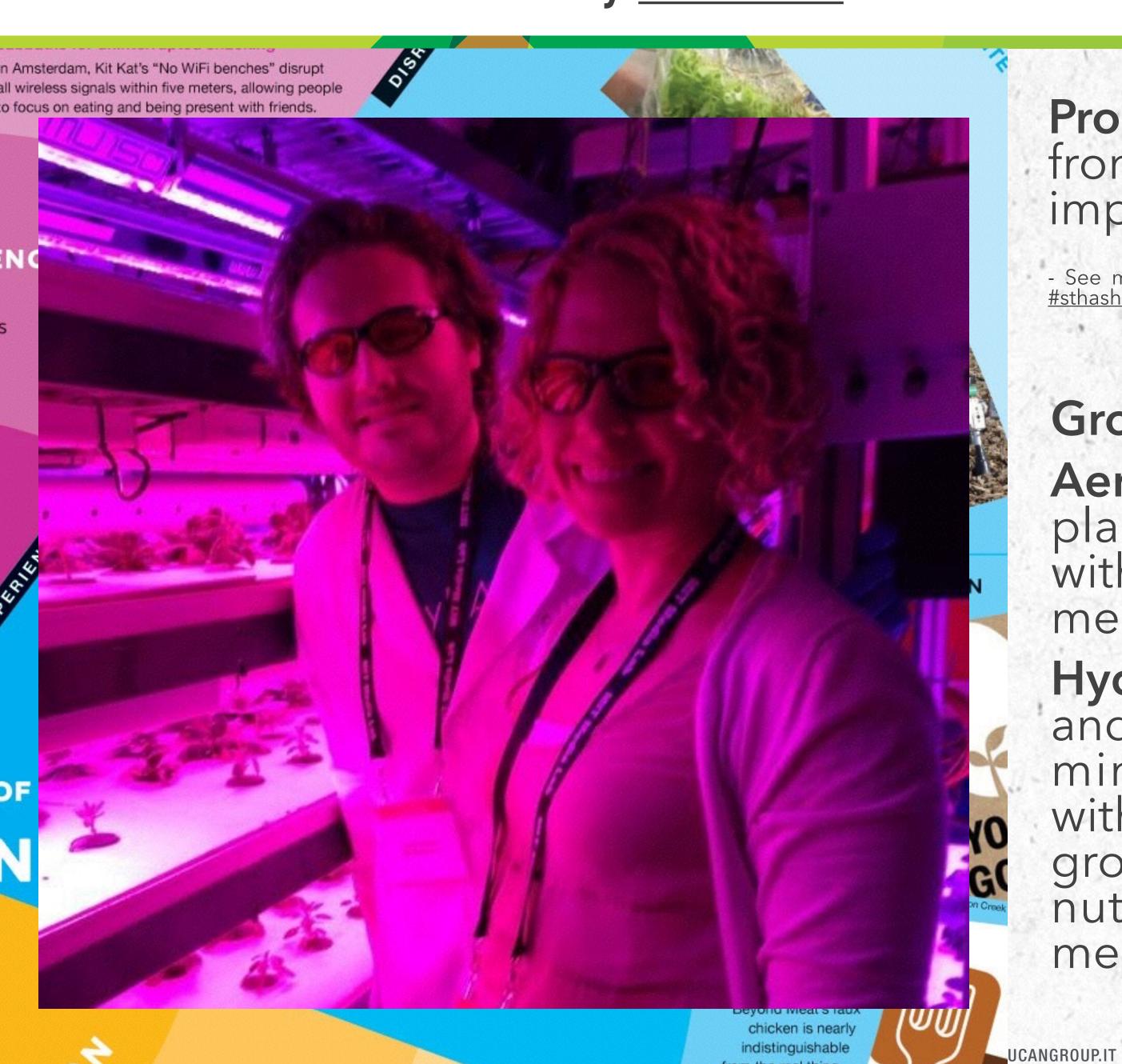
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Production | Reorganizing intensification: from resource-intensive agriculture to low-impact alternatives

- See more at: http://www.iftf.org/our-work/global-landscape/foodforfuture/seeds-of-disruption/#sthash.BUz0dbvV.dpuf

- → Growing food on every surface
- **→** Transforming proteins





Production | Reorganizing intensification: from resource-intensive agriculture to low-impact alternatives

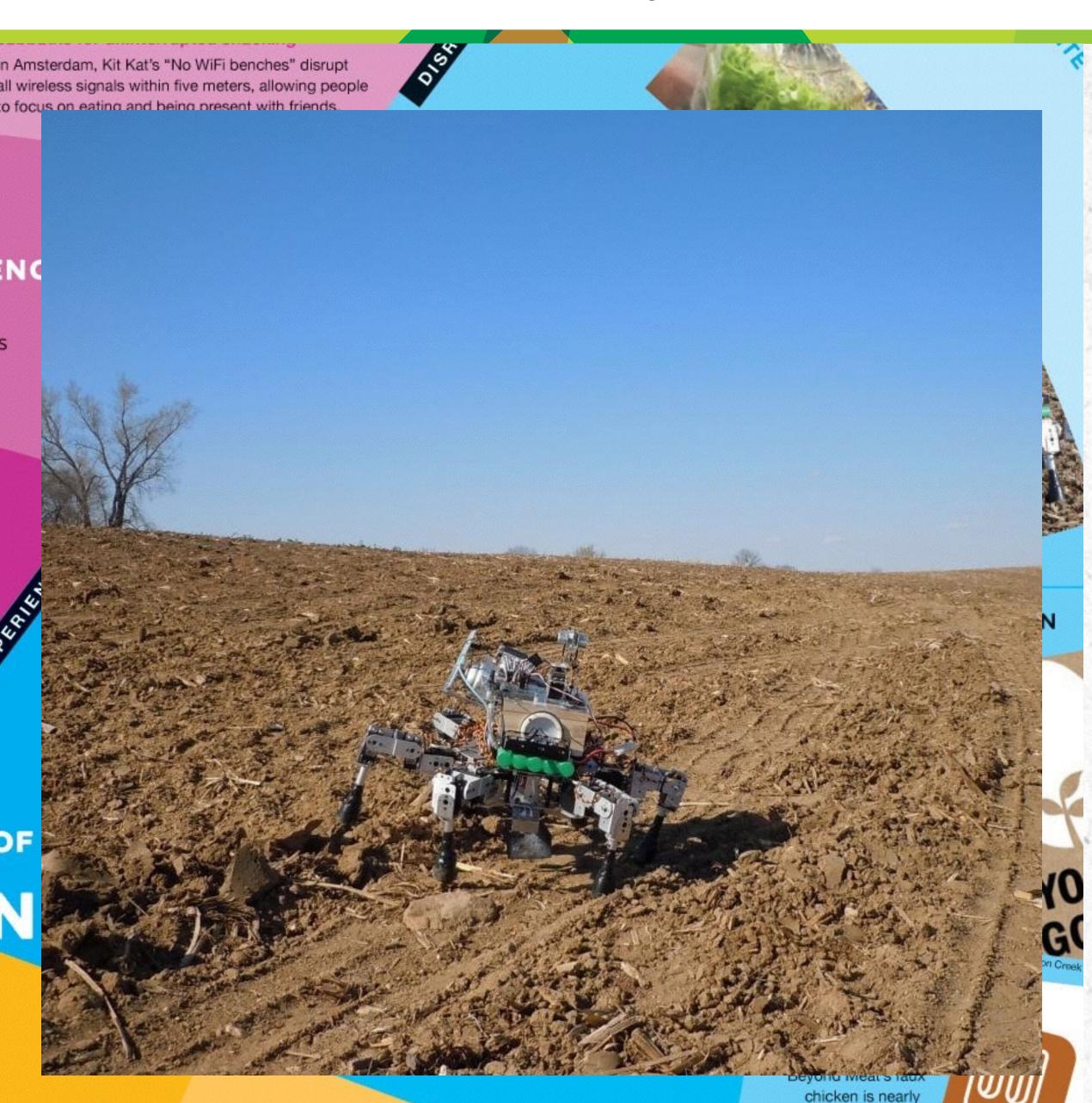
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Growing crops without water or soil:

Aeroponics is the process of growing plants in an air or mist environment without the use of soil or an aggregate medium (known as geoponics)

Hydroponics is a subset of hydroculture and is a method of growing plants using mineral nutrient solutions, in water, without soil. Terrestrial plants may be grown with their roots in the mineral nutrient solution only or in an inert medium, such as perlite, gravel.





indistinguishable

from the real thing.

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Swarming robot farmhand

Move over farmers: soon a swarm of robots could take over all the hard labour. A new robot developed by David Dorhout and colleagues from Dorhout R&D is designed to plant seeds in a field while coordinating with a gang of other robotic farmhands.





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Transforming proteins

Hampton Creek is a company dedicated to making it easy for good people to do the right thing. Whether you're a hip college student or a single mom raising two kids, everyone should be able to eat delicious food that's healthier, sustainable, and affordable.

The company's formula of plant compounds accurately reproduces egg-like qualities in baked goods at a cost that's 18 percent cheaper for food manufacturers. By appealing to industry's bottom line and not its environmental ethic, Hampton Creek could quickly make food production more sustainable. Vegans will benefit from the quest to replace eggs with plants too.





Distribution | Rebalancing efficiency: from large-scale efficiency models to distributed resilience

- See more at: http://www.iftf.org/our-work/global-landscape/foodforfuture/seeds-of-disruption/ #sthash.BUz0dbvV.dpuf

→ Tapping distribution networks

funds. Accord years financial doubled from





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Filling supply gaps

ColaLife's strategy to tap into existing distribution infrastructure by literally filling the gaps in shipping containers. - See more at: http://www.iftf.org/our-work/global-landscape/foodforfuture/seeds-of-disruption/#sthash.N1hPyeMs.dpuf





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Sourcing Local

A vegetable box scheme is an operation that delivers fresh fruit and vegetables, usually locally grown and organic, either directly to the customer or to a local collection point. Typically the produce is sold as an ongoing weekly subscription and the offering may vary week to week depending on what is in season.





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Aggregating B2B demand

Local Food System Inc. helps entrepreneurs work together to grow businesses rooted in agriculture, helps small suppliers to sell to sell to large procurers.





Manufacturing | Remixing standardization: from standardized to personalized formulation

- See more at: http://www.iftf.org/our-work/global-landscape/foodforfuture/seeds-of-disruption/#sthash.BUz0dbvV.dpuf

→ Taking manufacturing local





Manufacturing | Remixing standardization: from standardized to personalized formulation

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Automatic precision coffe machine

The K -Cup blended the disruptive innovation of a leading-edge technology company with the consumer focus of a socially conscious, premium coffee company.

K-Cup enable consumers to self-create high-quality beverages that personally satisfy any in-the-moment beverage need, as well as those of their families and guests.





precisely than humans at a

Manufacturing | Remixing standardization: from standardized to personalized formulation

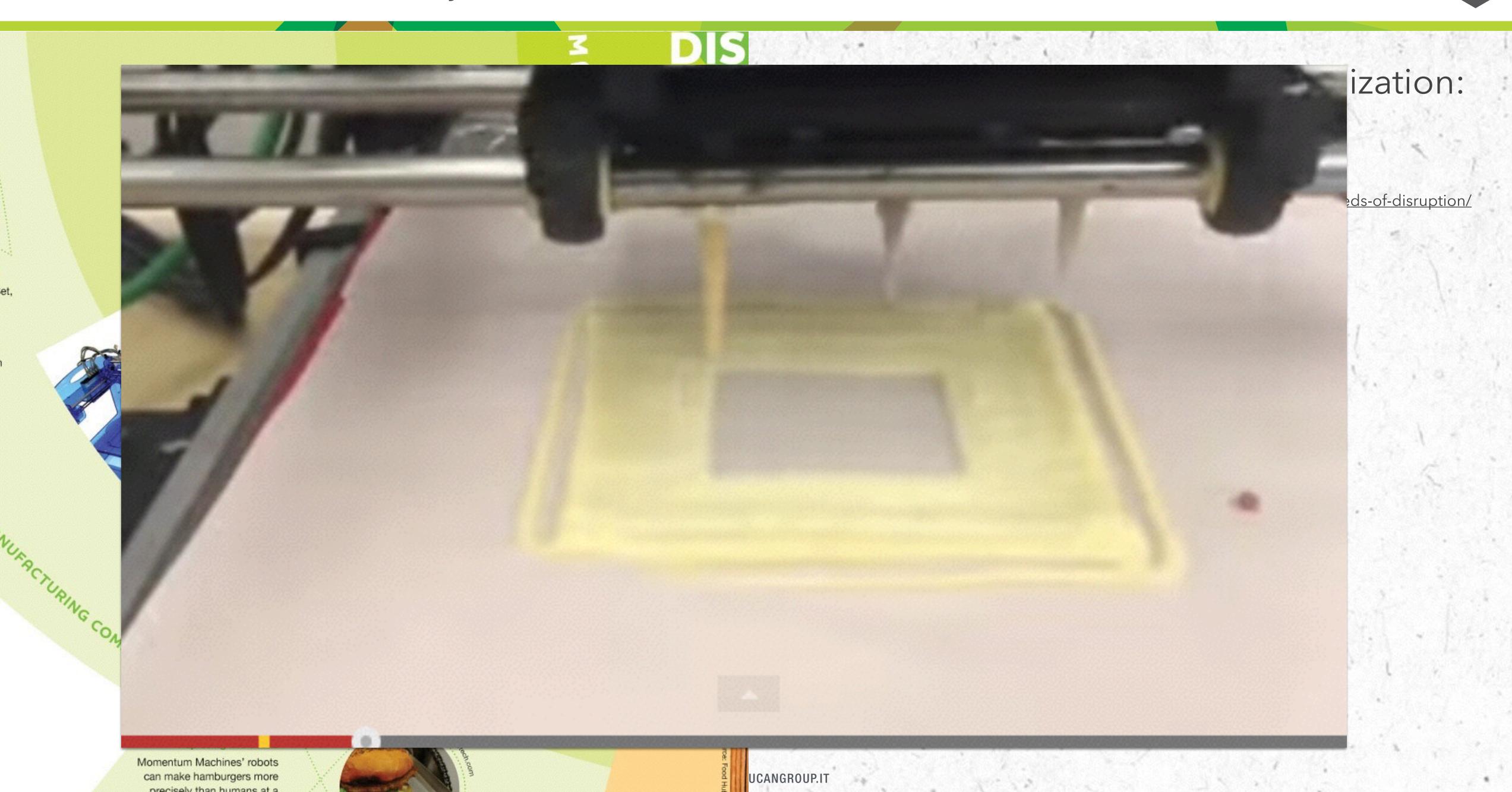
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Hacking the texture

Pas manufacturer Barilla launched a competition, called 'Print eat', seeking designs for a 3D printable new pasta shape. 3DPrint.com reports.











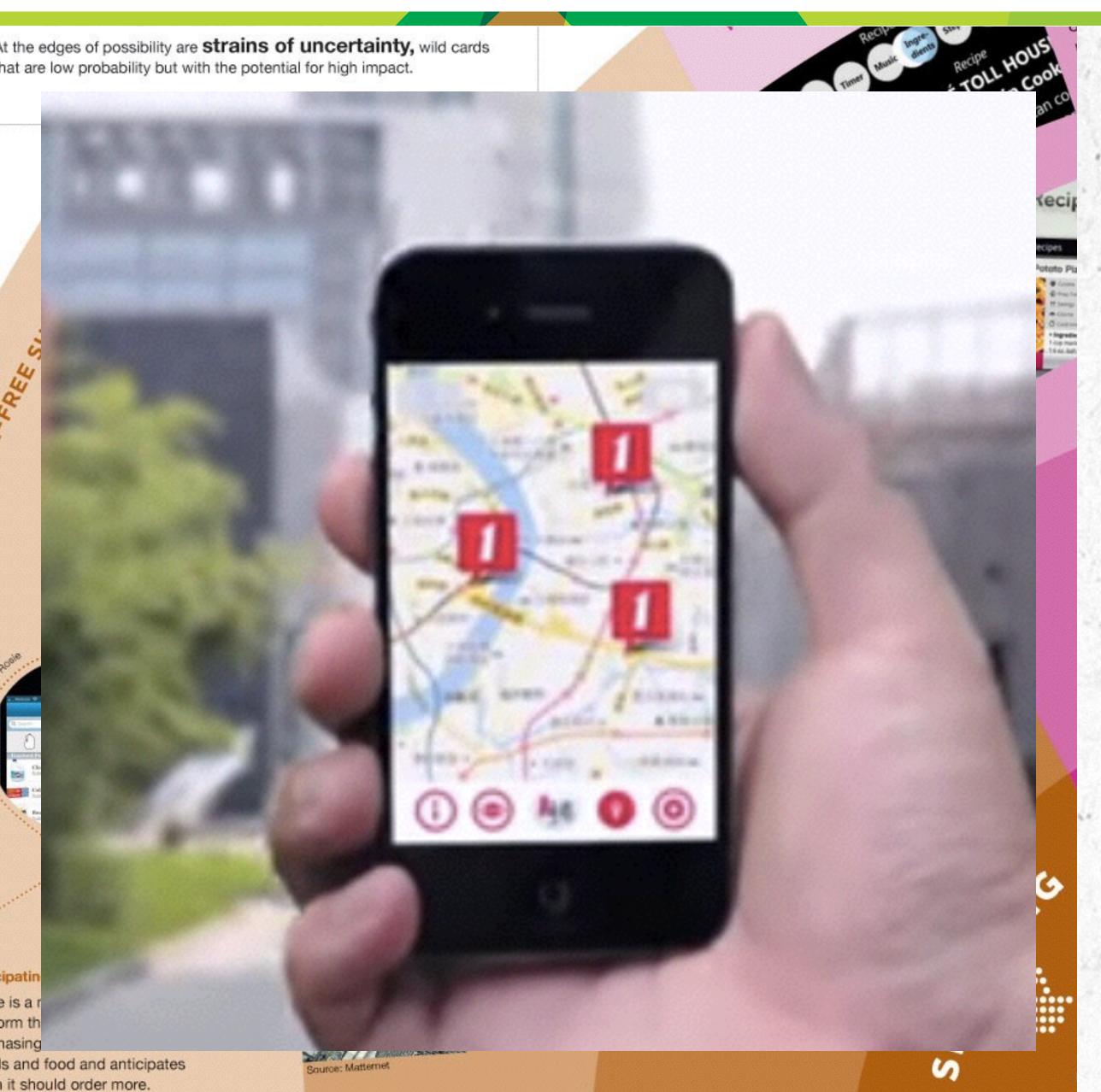
Shopping | Rethinking centralization: from centralized shopping sites to just-in-time delivery

- See more at: http://www.iftf.org/our-work/global-landscape/foodforfuture/seeds-of-disruption/#sthash.BUz0dbvV.dpuf

- → Grocery shopping without the store
- → New delivery

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Shopping | Rethinking centralization: from centralized shopping sites to just-in-time delivery

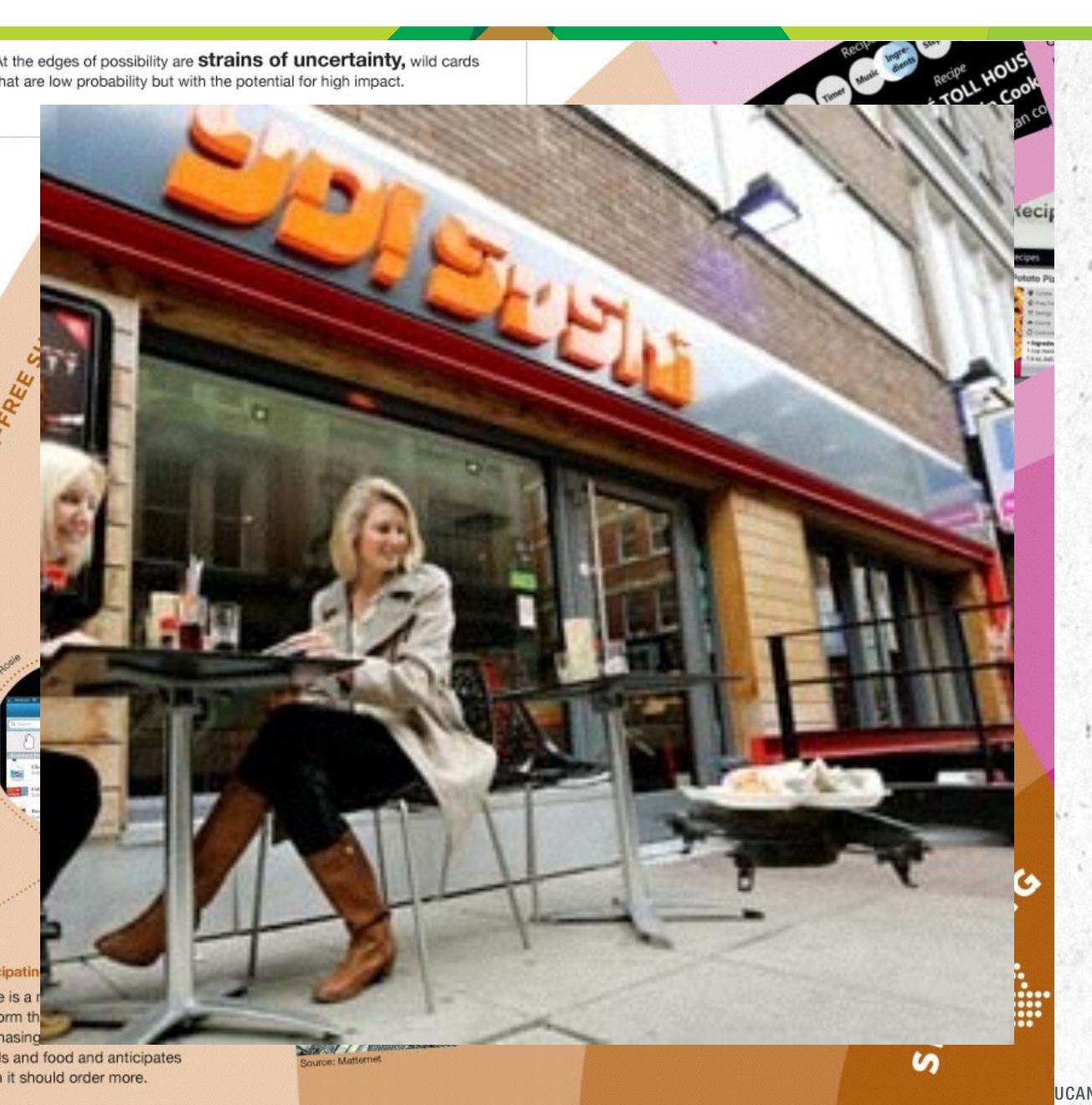
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Augmenting vacant space

Chinese E-commerce Grocer Yihaodian & O&M Advertising Shanghai's 1,000 Virtual Stores App Case Study Yihaodian, one of China's leading e-commerce websites, has teamed up with Ogilvy & Mather Advertising/Shanghai --this time taking the battle for China's grocery shoppers 'offline.' http://www.youtube.com/watch? v=hJqlpllR3nl

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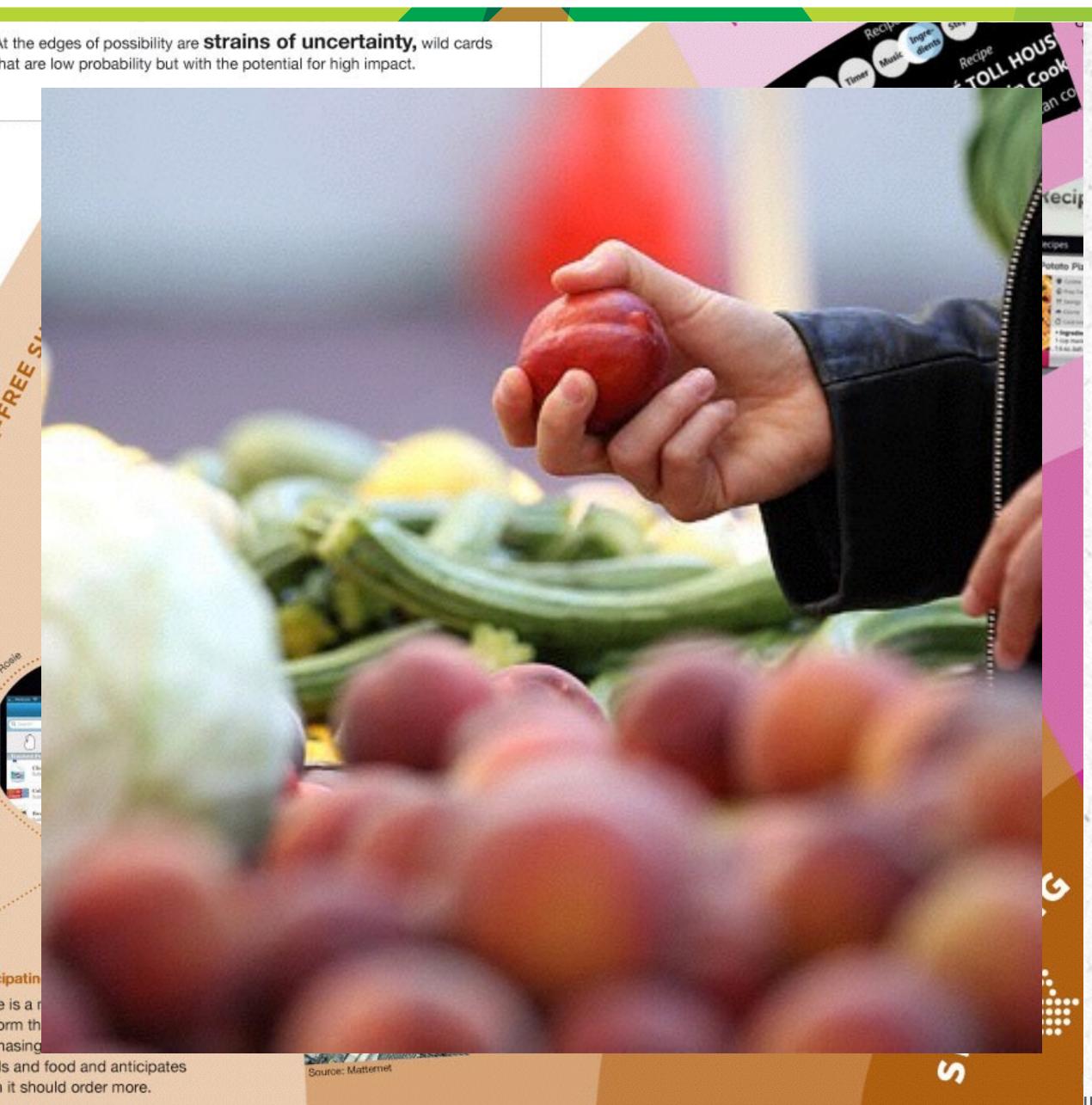
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Delivery by drone

Diners at a branch of Yo! Sushi in Soho, central London, see their burgers delivered on a flying tray. The stunt to promote Japanese rice-burgers allowed the food to float past tables without a waiter. The 'I-tray' gadget is made from a lightweight carbon fibre and has four propellers. Two built-in HD cameras allow kitchen staff to deliver the food via a realtime video broadcast viewable on an iPad

screen



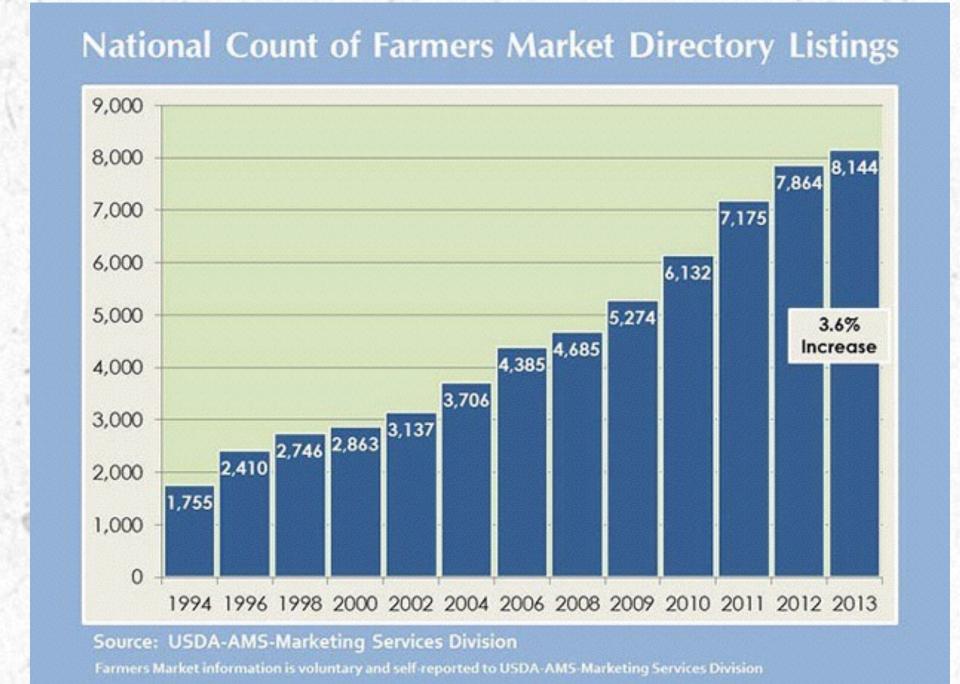


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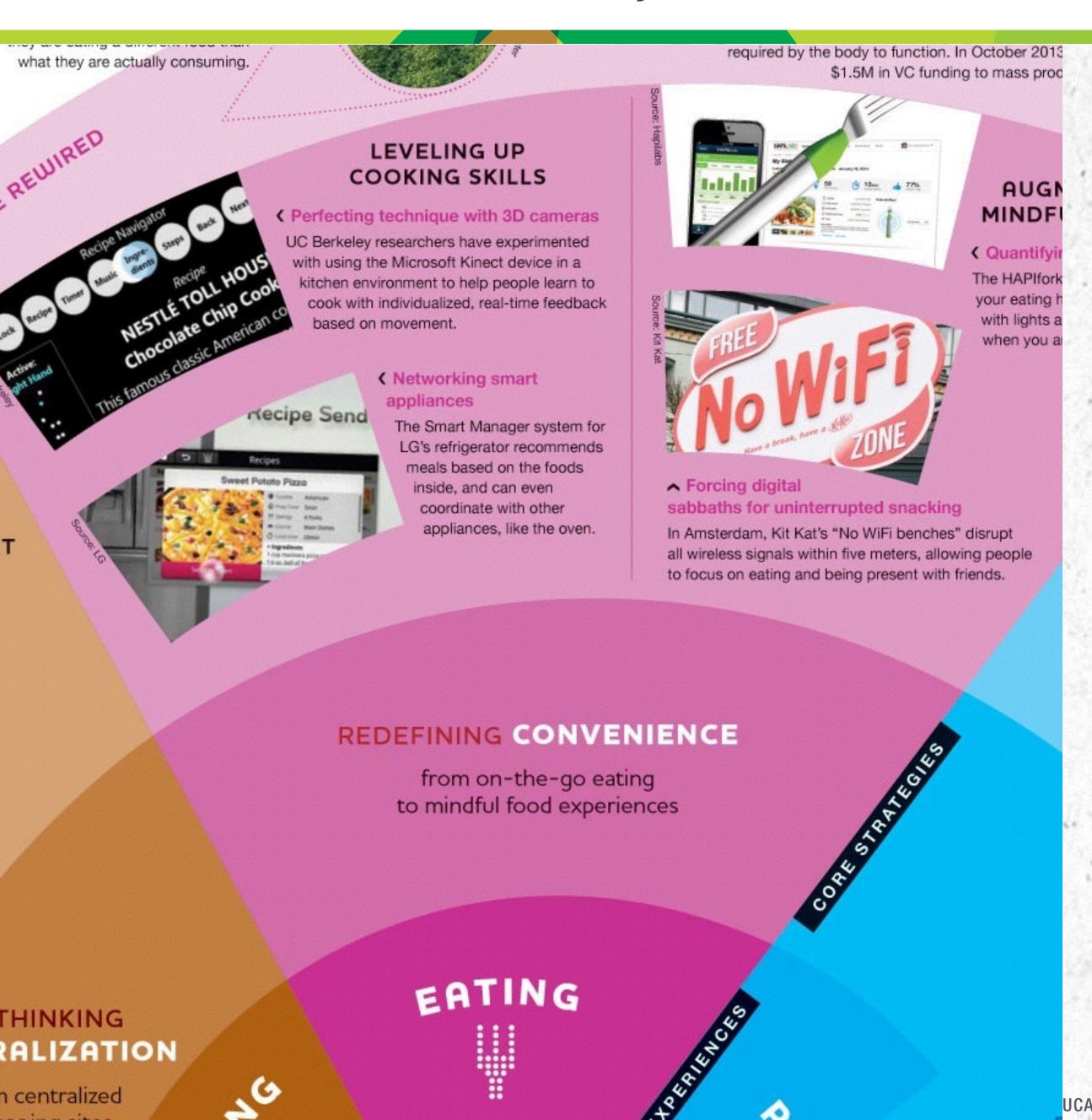
New markets

Farmers markets cut the distribution chain



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n centralized

Eating | Redefining convenience: from on-the-go eating to mindful food experiences

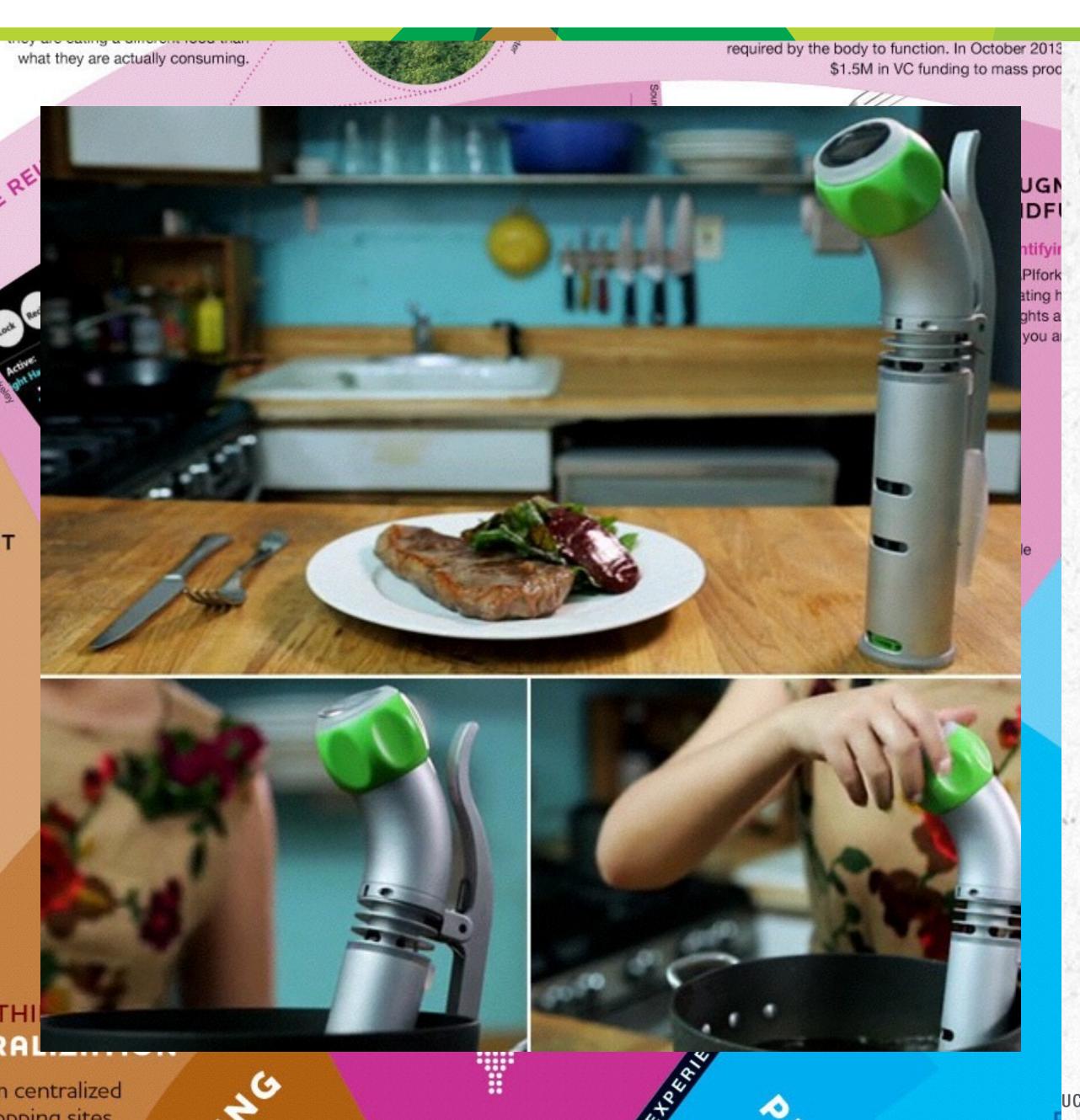
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→ Leveling up cooking skills

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→ Augmenting mindful eating





Eating | Redefining convenience: from on-the-go eating to mindful food experiences

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Leveling up cooking skills
Nomiku is the first immersion circulator designed for the home cook.

designed for the home cook. Designed in-house by the trio, Nomiku got its start from a successful Kickstarter campaign.

The team traveled between the States and China to start production of Nomiku and started selling the circulator direct-to-consumer online shortly after their Kickstarter campaign finished.





Eating | Redefining convenience: from on-the-go eating to mindful food experiences

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Forcing digital sabbaths for uninterrupted snaking

In Amsterdam Kit Kat's "no WiFi benches" disrupt all wireless signals within five meters, allowing people to focus on eating and being present with friends.









Eating | Redefining convenience: from on-the-go eating to mindful food experiences

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Quantifying eating speed

Eating too fast leads to poor digestion and poor weight control. The HAPIfork, powered by Slow Control, is an electronic fork that helps you monitor and track your eating habits. It also alerts you with the help of indicator lights and gentle vibrations when you are eating too fast. Every time you bring food from your plate to your mouth with your fork, this action is called: a "fork serving".







PRESENTED BY





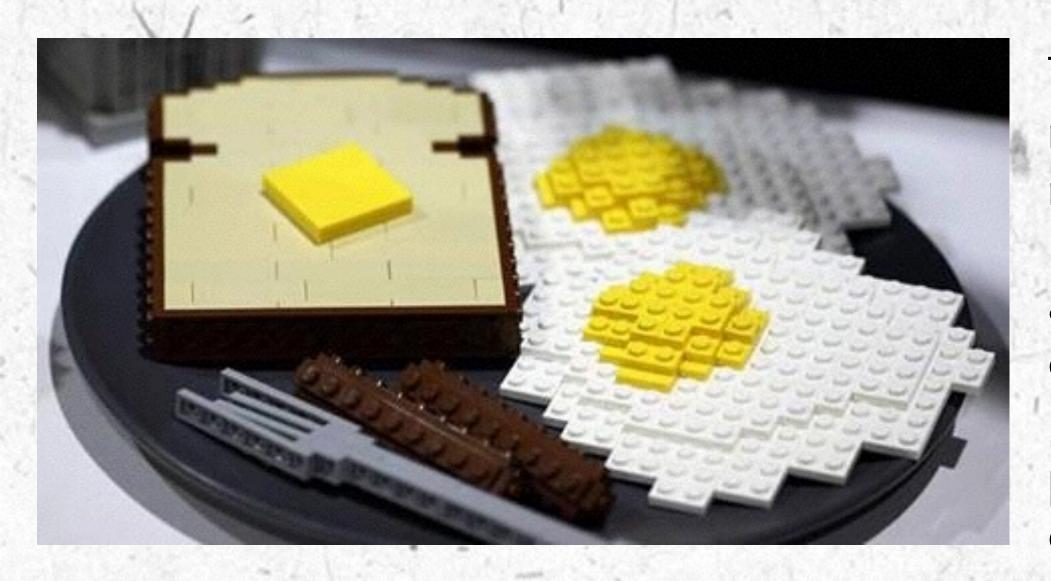


The Food Innovation Program is a full time advanced comprehensive Master's program that spans across the fields of food, innovation and entrepreneurship in order to meet requirements of the modern and future course of the food industry. The Food Innovation Program aims to identify the critical technologies for shaping agriculture, food distribution, retail and consumption while taking into consideration food safety, social relationships and regulations.

In addition, the program aims to expand and develop radical innovations outlined in the **Institute for the Future** (IFTF) forecast map, **Seeds of Disruption: How Technology is Remaking the Future of Food**. The Program is one of the few programs of its kind that is inspired by the **Reggio Approach** teaching methodology that acknowledges and cultivates creativity and interest in learning.

The Food Innovation Program provides an enriching environment that successfully combines two renowned worlds of forward thinking approaches – **Design Thinking and Foresight** – fueled by a well integrated, multidisciplinary and technically advanced faculty.





The theory phase of the **Food Innovation Program** is comprised of 6 modules: an introduction to the Institute for the Future's research methodologies and design thinking, followed by the five modules: Production I Reorganizing intensification: from resource-intensive agriculture to low-impact alternatives; Distribution I Rebalancing efficiency: from large-scale efficiency models to distributed resilience; Manufacturing I Remixing standardization: from standardized to personalized formulation; Shopping I Rethinking centralization: from centralized shopping sites to just-in-time delivery.

At the end of each module, participants will engage in prototype development activities based on design thinking methodology and food. Each participant will then submit a report based on the identification of case studies that are relevant and consistent. Alternatively, the report could involve students in activities to identify issues relevant to stakeholders of the project.

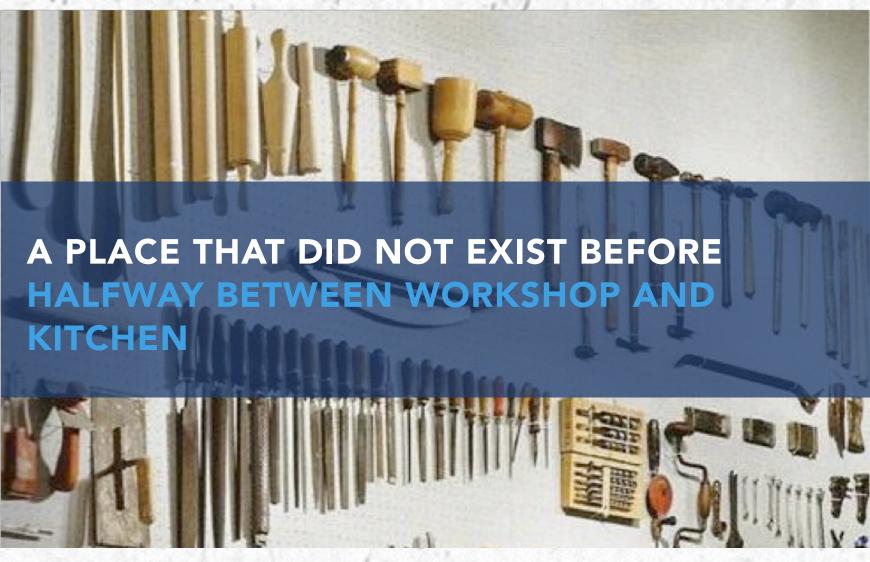
This phase of the program will allow students to identify the critical technologies for shaping agriculture, food distribution, retail and consumption, while taking into consideration aspects of culture, safety, social relations and regulations all centered round food. Students will gain entrepreneurial insight as they move on to the next phase of the program.

FOODINNOVATIONPROGRAM.ORG





THE LAB OF FOOD INNOVATION PROGRAM "OFFICUCINA"







A series of stimulating and dynamic workshops carried out in "Officucina", a state of the art kitchen inspired maker space for prototyping innovative products and services.

Specifically created for the program, the Officucina is a unique space that blends culinary tools with 3D printers, laser cutters, sensors, Arduino, and more.







We believe that life is about creating, building, sharing, seizing opportunities, giving, growing, living out dreams and having a positive impact on our world.

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