SPECULATIVE DESIGN NORMALIZATION

An introduction to speculative design practice and it's ethical imperative

J. Paul Neeley Gemma Jones

School of Critical Design

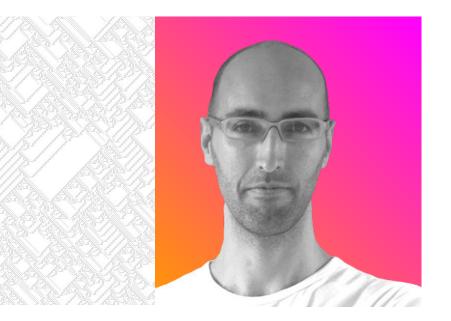


The School of Critical Design

We are an experimental design school dedicated to the application of emerging methods to innovation, design and strategy.

Our professional and academic courses offer new ways for individuals and organisations to meet the critical challenges facing our planet, people and businesses now, and the for next 1000 years.

Come and explore the future with us.



J. Paul Neeley

Service Designer & Speculative Designer Neeley Worldwide

Co-founder School of Critical Design

J. Paul is a designer & researcher based in London. He is the director of Neeley Worldwide, a studio helping organizations create meaningful impact through speculative design, service design, research & strategy.

He has worked professionally at Unilever & the Mayo Clinic, and studied on the Design Interactions course with Tony Dunne & Fiona Raby at the Royal College of Art from 2009 - 2011. For the past 10 years he has applied in his professional practice and taught Speculative design with leading companies around the world, and as a tutor in Service Design at the Royal College of Art.

jpaul@neeleyworldwide.com



Gemma Jones

Interdisciplinary cultural researcher and strategist specialising in semiotics and futures thinking

Co-founder School of Critical Design

Gemma's work explores the connections between people and their bodies, habitats, communities and planet. She works with designers and communicators to create experiences and strategies with imagination, cultural resonance and bravery.

In the decade since her masters in Culture and Creative Industries at King's College, Gemma has worked on innovation, brand strategy and design projects with organisations including Nike, Microsoft, United Nations, Uber, PepsiCo and HB Reavis. She guest lectures a course on critical research methods for design on MA Strategic Design HFG Schwäbisch Gmünd. Currently Director of Insight at Protein Agency gem.ra.jones@gmail.com 15.30 - 16.00 Welcome

16.00 - 17.30 Introduction : Expectations, specific questions, agenda Speculative design : What is about… Why it is relevant… When is it successful… Cases…

17.30 - 18.15 Tour ndsm terrein in Amsterdam

18.15 Drinks and snacks

18.45 Exercises : Working in teams on selected cases (Future Wheel, Brainstorming, Speculative Design, Implications)

20.00 Dinner

21.15 Tea / coffee

21.30 End

- A new approach to product and service development & innovation
- An empathetic approach to systems thinking
- Frameworks for connecting long term considerations and near term action
- Freshly ignited creativity and energy for change
- An approach to shaping organizational change, strategy and purpose

Prep : 60 seconds

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RCA Service Design

Tutor @rca_sd



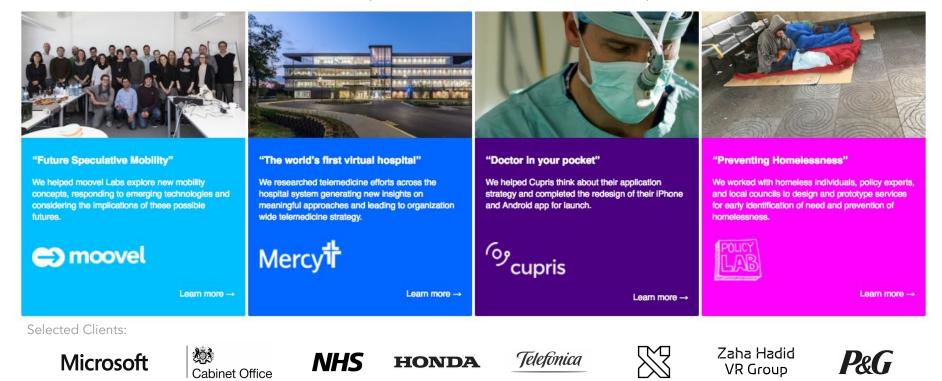
Neeley Worldwide neeleyworldwide.com @neeleyworldwide



School of Critical Design critical.design @criticaldesign_

NEELEY WORLDWIDE

A design studio _ creating meaningful impact _ through service design & speculative design





HOW CAN WE BETTER UNDERSTAND & CREATE THE FUTURE?



TODAY

A BRIEF INTRODUCTION

CAN SPECULATIVE DESIGN CREATE VALUE?

THE ETHICAL IMPERATIVE



The design of future products and services to explore the implications of emerging technology and trends.

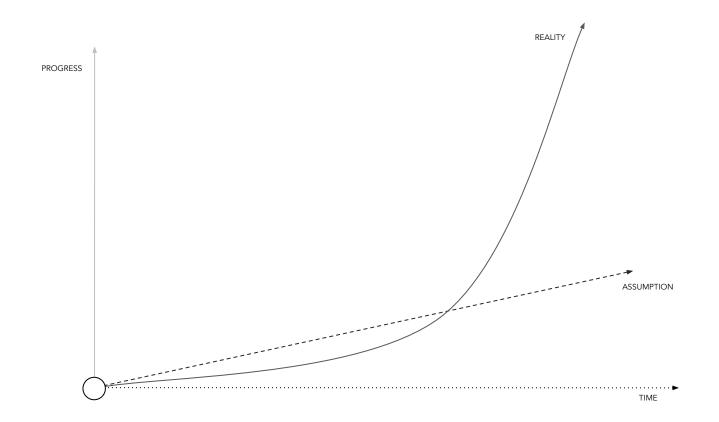
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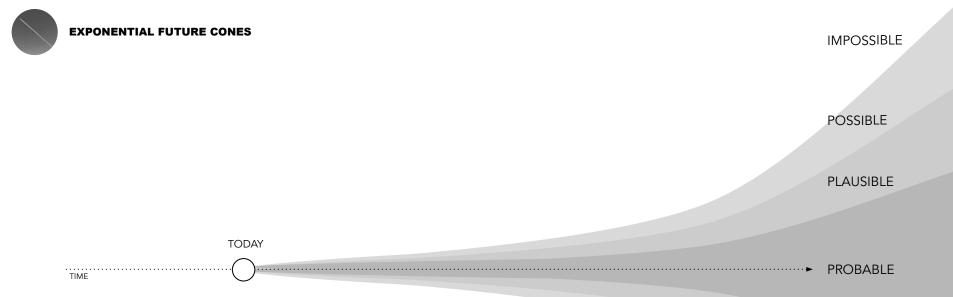
affirmative problem solving design as process provides answers in the service of industry for how the world is science fiction futures fictional functions change the world to suit us narratives of production anti-art research for design applications design for production fun concept design consumer user training makes us buy innovation ergonomics

(b)

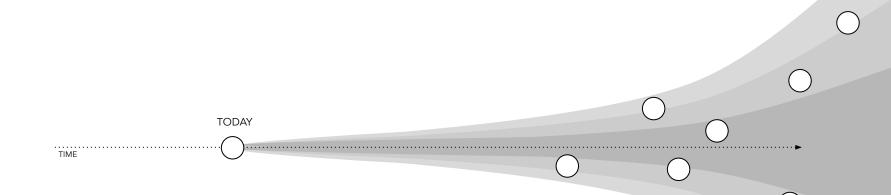
critical problem finding design as medium asks questions in the service of society for how the world could be social fiction parallel worlds functional fictions change us to suit the world narratives of consumption applied art research through design implications design for debate satire conceptual design citizen person education makes us think provocation

rhetoric

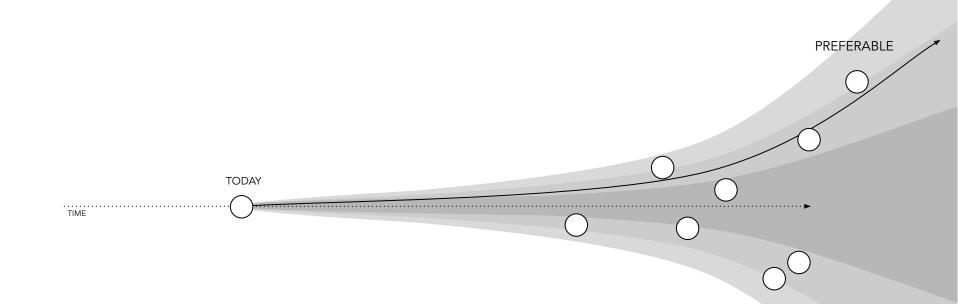


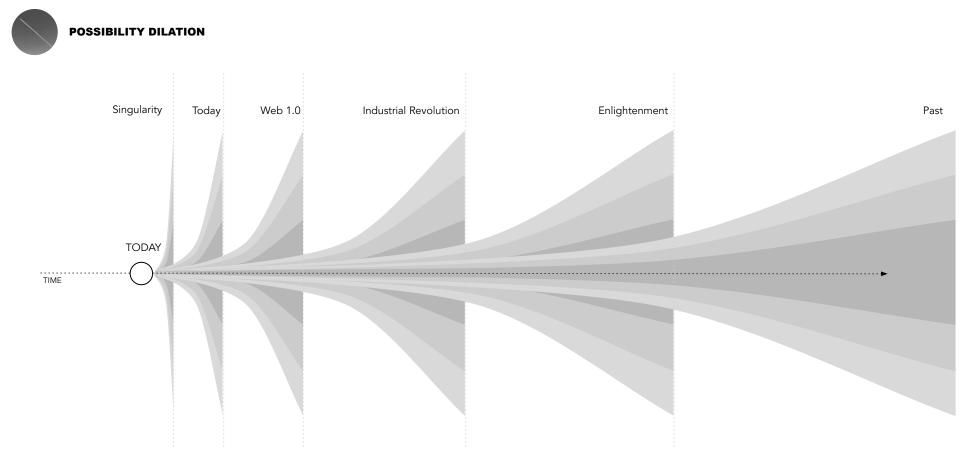












NOT FANTASY

NOT UTOPIC OR DYSTOPIC : COMPLEXITY

ABOUT MESSY PEOPLE

NOT PREDICTIVE : WORK IN MULTIPLES

FOR UNCLEAR CONTEXTS : EMERGING TECHNOLOGIES & TRENDS

ENGAGING THROUGH PROTOTYPES : SUSPENSION OF DISBELIEF / LOOSEN REALITY

ANSWERS THROUGH QUESTIONS

ABOUT RADICAL ALTERNATIVES : REFRAMING



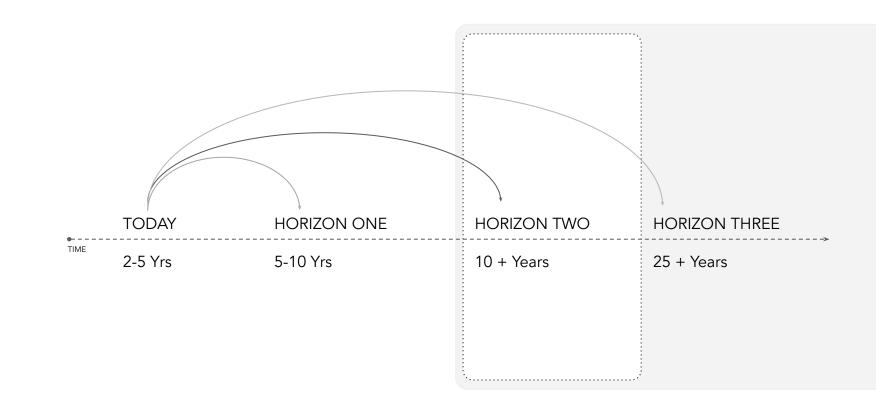
SPECULATIVE DESIGN CAN HELP US EXPLORE, BETTER UNDERSTAND, & CREATE THE FUTURE

CAN SPECULATIVE DESIGN GENERATE VALUE?

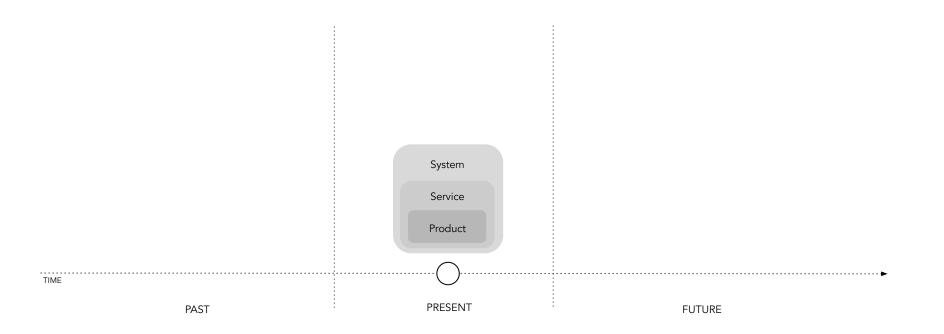
FAMILIAR DESIGN APPROACH

RESEARCH DESIGN IMPLEMENTATION Brief Insights Concepts

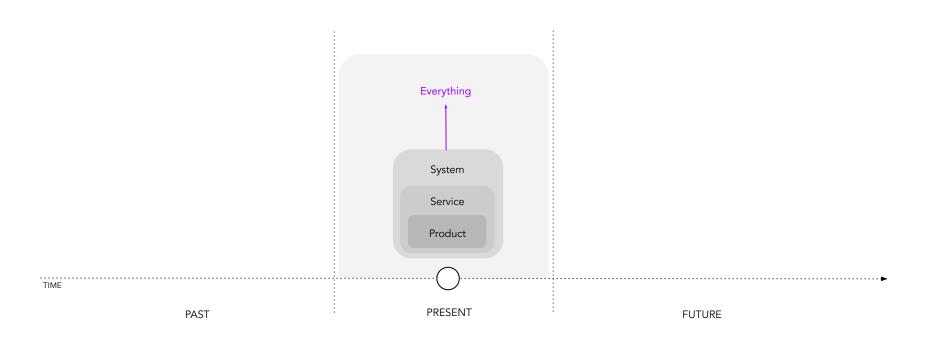
> Strategy, Roadmaps, Further Research, Product or Service Implications.



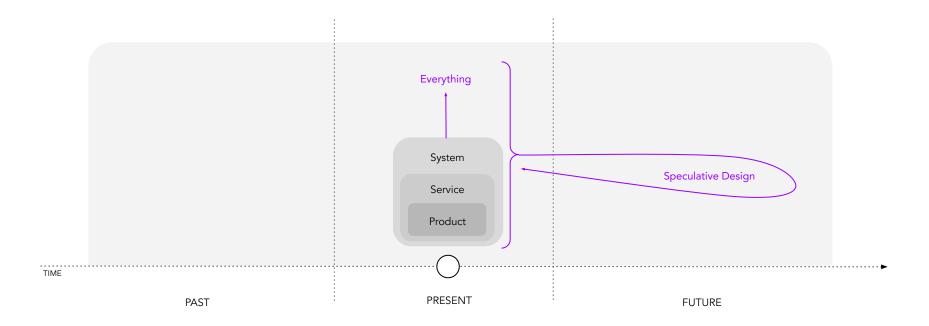
DEFINING EVERYTHING

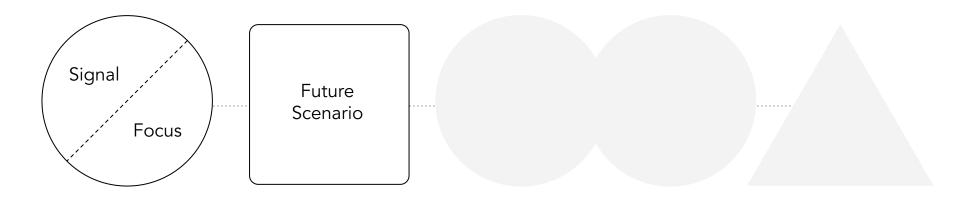


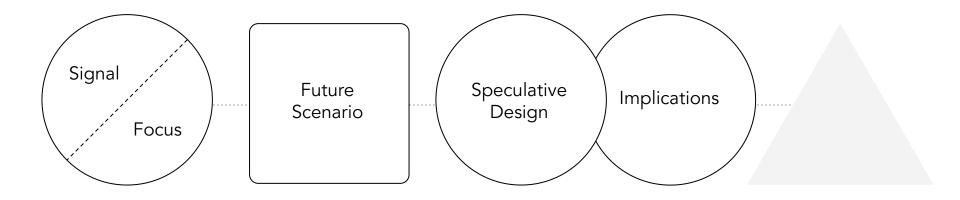
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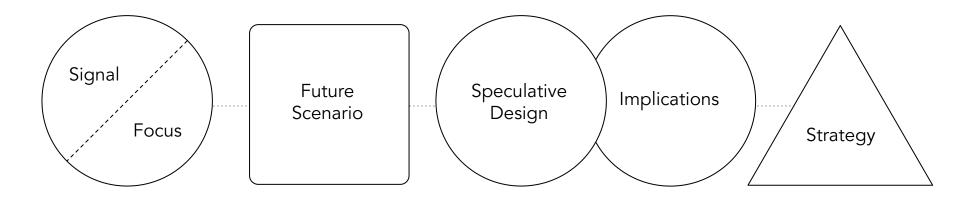


DEFINING EVERYTHING

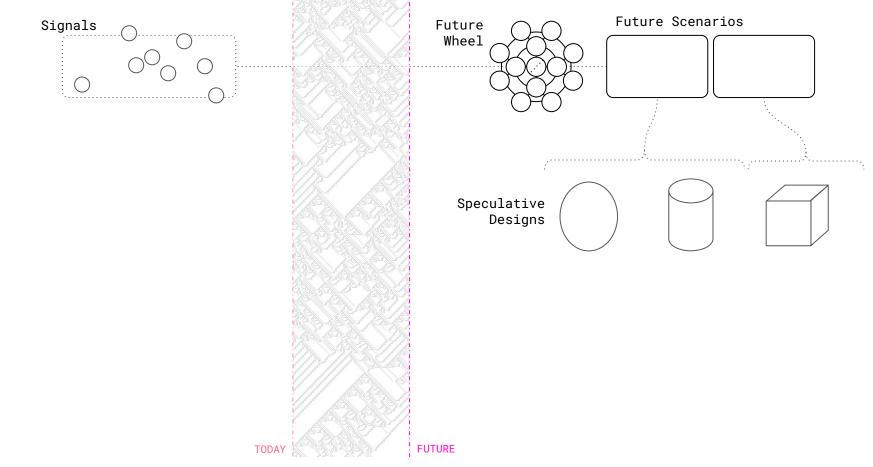


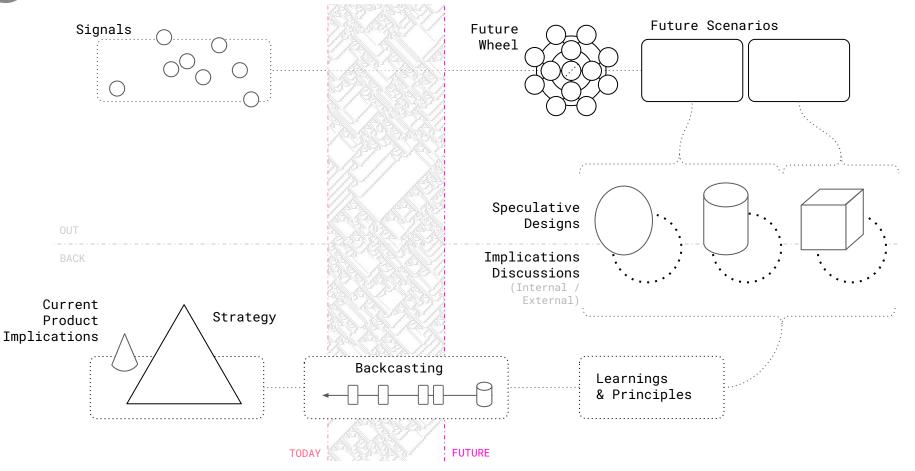




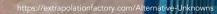


TRADITIONAL SPECULATIVE DESIGN

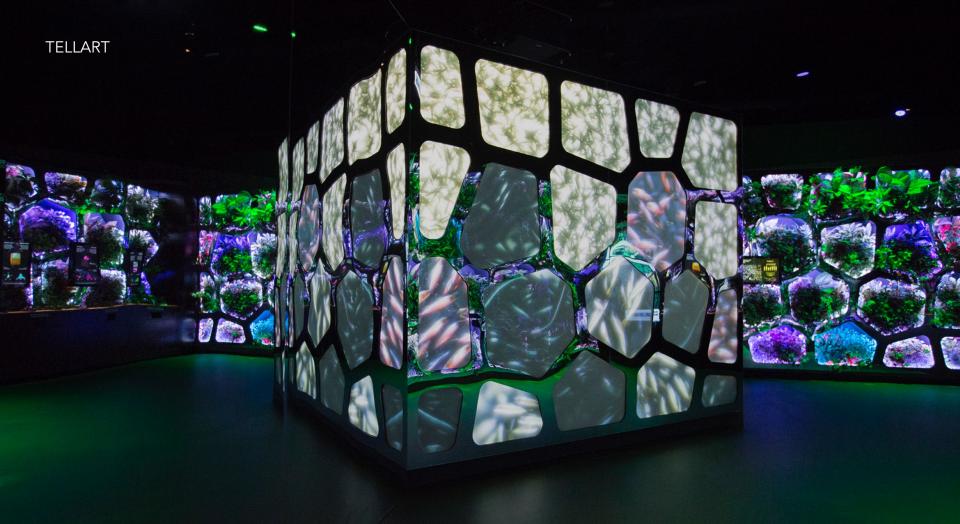




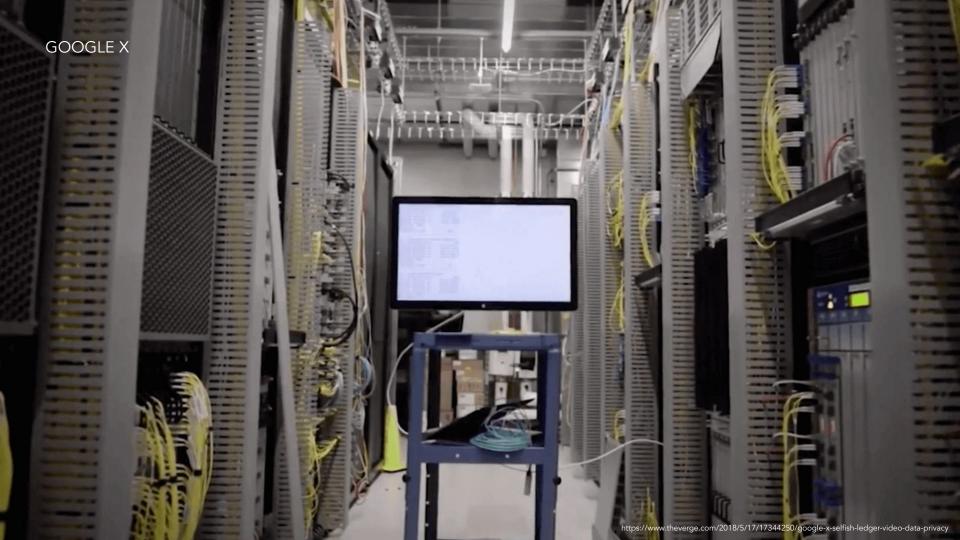
THE EXTRAPOLATION FACTORY







SUPERFLUX





& Veggies

Where Do Cars Go at Night?

https://extrapolationfactory.com/Alternative-Unknowns

idea by Susanne Purucke illustrated by Shiori Clark 📼

**

published by moovel lab

Harvest



LITENGÅRD table-top farm makes itself at home in any kitchen

Mood

Since the first-generation of the LITENGÅRD range hit homes in 2025, fans have been hacking their way to benefits beyond the original flatpack kit. **Lidia Zuin** caught up with neuroscientist and bioartist Robynn Kim, and Lana Womalk, the Head of Wellbeing at IKEA, to hear more about the new Ambiosense features of the most recent updates to LITENGÅRD – and what it means to introduce mood enhancing scents and sounds into kitchens around the world.

> t was a sunny afternoon when I met Lana and Robynn in the convival kitchen that Robynn shares with five other families in the autonomous municipality of Solarvind. Surrounded by the smell of freshly baked pumpkin pie and a comforting fragrance (that I couldn't quite put my finger on), we talked about the Ambiosense experience: the new sound and scent hardware that Robynn's collective developed while huddled during seasonal Covid-19.

"Our daily rituals have fostered a profound sense of connection and security among our community."

> After applying and receiving a [®]GRON token grant, the collective exchanged it for a homestead on a few acres from the International Land Release programme. "Our home community nurtures generative research," Robynn explained.

"We are each using the early versions of LITENGÅRD to earn (©GRÖN tokens and harvest resilient greens that feed our families and neighbours." They add that this daily ritual has fostered "a profound sense of connection and security among our community."

It was during these tweaks to LITENGÅRD that the bioartists developed the Ambiosense experience, a feature that enables this table-top farm to synthesize organic scented compounds which are known to improve mental health. After being approached by IKEA, the collective integrated these features into the circular updates released for the range, making the restorative and mood enhancing effects available to everyone.

"We had already factored in the need for neuro-adapted sound and other sensory compounds that enhance mental health when we first developed LITENGÅRD," adds Lana, "but we were keen to create a more roundet ambience in collaboration with Robynn and the other bioartists, so we could really deliver a powerful experience in homes around the world." •



LITENGÅRD

Social tokens are ready for exchange when the family harvests their greens in the newly released 2031 model; the Ambiosense user interface for sound and smell



Lana says these new features are especially relevant in times of community isolation during the dark months of winter, when homes are under increased pressure to meet people's emotional needs. "In the home visits we do, people talk about how LITENGÅRD makes them feel safer and more in control of their home environment. It's a very intentional and adaptable product that brings a biophilic boost to interiors and contributes to family economies, while also having a profound impact on people's moods," says the Head of Wellbeing at IKEA.

With this new series of rural and farm Ambiosense experiences adapted to LITENGARD, users can tune up or down depending on your unique mental health needs. "You can go from full-farm to very light sensitivities, like an evening on a ranch in Montana," explains Lana. For Robynn, the chance to release a new programme presented even more opportunities to create holistic experiences. "This is why I developed a mood setting that I called BIO.me, which you can also use to grow a blend of slightly sweet herbs," they say. "We use them to brew a neuro-activating tea which has a whole range of palliative and physiological benefits."

Both Lana and Robynn are excited by the possibilities these new features of the LITENGARD range introduce. "We believe that customers can benefit from these additions, and also take inspiration from bioartists to develop their own blends," says Lana. Already thinking ahead to next year's circular release, Lana adds that IKEA is keen to grow a whole portfolio of community-curated settings for the Ambiosense experience, starting with Robynn's very own BIO.me. ● "You can use a mood setting, that I called BIO.me, to grow a blend of slightly sweet herbs, which has a whole range of palliative and physiological benefits."

Family mealtimes are more memorable with fresh greens and mood-boosting smells



Designing the Future of Life at Home

Using design fiction to see ahead



What might life at home for the average household look like in, say, ten years time? A small group of friends who share a deep passion for 'the future mundane' think it could feature a LITENGÅRD table-top farm alongside the kitchen clutter and mealtime mess of everyday life. Did you spot the fake advert we made for it a few pages back?

> e caught up with Julian Bleecker from Near Future Laboratory and our editor-in-chief Katie McCrony to hear why they used design fiction as a way to imagine a more meaningful future that's better for body and mind - and how they conjured LITENGARD out of thin air to make an important point.

Let's start with the most important question: what is design fiction?

Katie McCrory (KM): I love the way Julian explains it: You're sent to a home ten years into the future but you only have five minutes until you're sent back... What would you grab? You can't bring a flying car, but maybe you'd grab a magazine or a packet of crisps. Design fiction is a way of creating these everyday future items, and they tell us different things than looking at 3D renderings of impossible forms of transport.

"We conjured up LITENGÅRD – literally, little farm – a fictional product that captures the needs and dreams of the ideal future at home." Julian Bleecker (JB): I like to say that design fiction is like exercise for our imagination, because it uses that muscle to think about other possible futures beyond the obvious, like going to Mars. Rather than asking what the future of travel will be like, we might start by thinking about the future of the travel ticket and have something that expresses the whole journey. Design fiction is more of a mindset than a technique; it's a way of framing questions that encourage an open and curious approach.

Why are you bringing design fiction into how IKEA imagines the future of life at home?

KM: I've always been curious about how to use storytelling and insights to innovate, but collaborating with Near Future Laboratory helped us think about the future in a more relatable and everyday way. It's been really fun to use the IKEA Life at Home Report 2021 as our starting point because it doesn't just tell us what people want from their homes in the future, but how they want to feel living there.

JB: And IKEA is a company that touches so many parts of people's lives. Together, we can imagine everyday futures through humble, ordinary things, which gives us a modest perspective on someone's home in the next decade or so. Quite simply, design fiction is a democratic way of talking about the future. ►

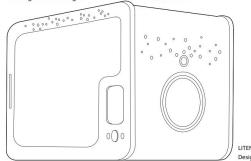


LITENGÅRD We imagined a ventilation system that runs through a certified Leave No Trace bioplastic that is entirely biodegradable when parts are updated through circular range releases

KM: Exactly. This taps into our values and our Democratic Design principles at IKEA too. We want to imagine a future where people have great mental wellbeing, and imagining what this life feels like points us towards opportunities that we might not get to if we only talked about product innovation.

JB: In a sense, the real opportunity comes from not just imagining what a future chair looks like or is made of, but also imagining what the occupant is experiencing and how their life can be fulfilling and meaningful. How is design fiction featured in this magazine?

KM: We took some key insights from the IKEA Life at Home Report 2021, which showed us that people want their ideal home to be cleaner, greener and safer. We also know that feeling good about home helps us feel good about ourselves. This got us thinking about fresh air and the senses – especially taste, smell and sound – and the increased need for security, community and connection within and beyond the four walls.



LITENGÅRD Design drawing "You're sent to a home ten years into the future but you only have five minutes until you're sent back... What would you grab?"

> JB: So we imagined a near future where indoor home garden appliances are ubiguitous and ordinary, even in urban contexts. We imagined a device that also produces a biome which circulates natural chemical compounds given off by plant growth, and a subtle audio mechanism that produces "farm fresh" sounds. That's when we conjured up LITENGÅRD literally, little farm – it's a way of turning the report's insights into a fictional product and service that captures these needs and dreams of the ideal future at home in a way that's relatable. And we also wrote the kind of article that would promote this product and its benefits in a magazine made ten years from now.



Julian at work, Venice Beach

> Katie at home, Copenhagen

What will happen next?

JB: This is just a starting point for ongoing conversations about a more habitable world where people feel belonging and purpose. Let's keep talking about intentional and adaptable living. With design fiction, it's not a leap to go from home furnishing to the experiences we have at home and what that means for the world. With the reach and impact that IKEA has, i'm excited to see what more we can imagine together.

KM: I'd love to make design fiction an everyday part of how we work, so that we ask ourselves better questions that get us closer to the dreams of our customers. Life at home is a constantly evolving story, so design fiction feels like an exciting way to carry on telling it. ●



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RCA IDE + GLOBAL MOBILITY COMPANY





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NEELEY WORLDWIDE + FORTUNE 500 RETAILER





NEELEY WORLDWIDE + GLOBAL HEALTHCARE GROUP





DEEP EMPATHY TANGIBLE FUTURE EXPERIENCE : IMPLICATIONS VS APPLICATIONS : INTERROGATION OF REACTIONS

CREATIVE SPACE

INNOVATIVE THINKING : DREAMING : THOUGHT LEADERSHIP

ENHANCED DECISION MAKING

DISCUSSION SPACE : PERSPECTIVE IN UNCLEAR CONTEXT : RADICAL ALTERNATIVES : TRIANGULATION : HEDGE RISK



MORE PLEASE!

THE ETHICAL IMPERATIVE





Billion-Dollar-Startup-Idea: Arduino-powered artificial wrist that wears a Fitbit and tells my insurance company I'm doing fine.

Techmeme @Techmeme · Sep 20, 2018 John Hancock, one of the largest life insurers in the US, will now only sell policies that track fitness and health data via wearable devices and smartphones (@suzannebarlyn / Reuters)

reuters.com/article/us-man... techmeme.com/180919/p39#a18...

9:37 PM · Sep 20, 2018

41 Retweets 6 Quote Tweets 150 Likes



mority," Hicks said. "We will get to the bottom of this and make

The Civileviar Setvol

REACTION

were basically religious men who were not very concerned evolutionary biologist from the University of Lat

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ed, "We can s wearing a black hi in to the idea was also wea s kind of mis ters then ventured fur

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OPEN A

"New AI fake text

generator may be too dangerous to release, say creators"

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We will get to the bounding t

with states rights The

wer away from the states, that they weren't sovereigr The Civil War occurred in re ins and black sandals. The singer was also wearing a pair of black-rimmed etween states' rights and federalism You're not wrong about that, but it's kind of misleading to

nd with states' rights. The "founding fathers" were basically religious men who were not very o

air of black and whitherson said Our constitution was made only for a moral and re

Ime we reached the top of one peak, the water looked blue, with some crystals o

entured further into the valley. Pérez and the others then ventured further into the valley.

anions, were exploring the Andes Mountains when

The es taken fr matnest people think of when the

Visiting is taking far too much power away from the states, that they weren't sovereigr The Civil War occurrent Visiting working with the Federal Railroad Administration to find the thief. In an email to Ohio news outlets, the U.S. Depa bercromble and Fitch on Hollywood Boulevard today (pictured) Shoplifting: Miley Cyrus was caught shoplifting from Incinnati's Research Triangle Park nuclear research site, according to a news release from Department officials nati's Research Hange think of the war as about states rights But that's not what most people think of the war as about states rights But that's not what most people think

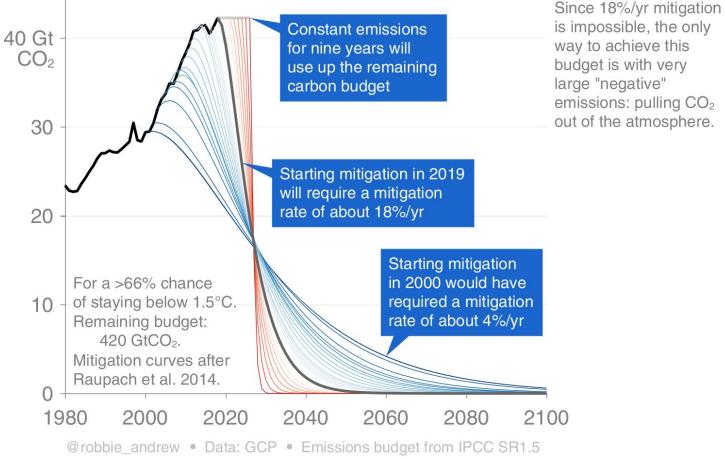
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or a morae and same again.

https://blog.openai.com/better-language-models/

School of Critical Design https://critical.design

CO₂ mitigation curves: 1.5°C





TIME TO PANIC

"Catastrophic thinking"

The New York Times

https://www.nytimes.com/2019/02/16/opinion/sunday/fear-panic-climate-change-warming.html



"If you take this ... IPCC report literally, the decade of the 2020s is about to be the most important years in all of humanity.

We're about to enter one of the most creative, meaningful, transcendent eras of human history — simply because we must."

Eric Holthaus

Whatever you are doing right now is probably not as important as addressing global warming.

We must become a net zero emissions carbon neutral world before 2040 if we want to continue to enjoy our current state into the future, avoid run away warming, and pass on a world to the next generation that is at all similar to our own. The window for mitigating action on climate change will close in the next decade. We must help governments, companies, and individuals take radical action today. Let's understand this urgency, and embed this existential issue into all of our thinking and everything we do. What can you do today to enable change?

<script async src="https://code.climate.studio/js/climatestudio.js"></script>

https://climate.studio





"All imagined futures lacking recognition of anthropogenic climate-change will increasingly seem absurdly shortsighted. ...will be seen to have utterly missed the single most important thing we were doing with technology."

William Gibson

[a]

affirmative problem solving design as process provides answers in the service of industry for how the world is science fiction futures functional functions change the world to suit us narratives of production anti-art research for design applications design for production fun concept design consumer user training makes us buy innovation ergonomics

[b]

critical problem finding design as medium ask questions in the service of society for how the world could be social fiction parallel worlds functional fictions change us to suit the world narratives of consumption applied art research through design implications design for debate satire conceptual design citizen person education makes us think provocation rhetoric

[c]

acknowledgment problem reframing design as interface denerates wisdom in the service of everything for how we want the world to be non-fiction evervthing now functional non-fiction change the world to suit everything narratives of equilibrium applied values research and design impact design for survival dead serious concept to design sapian living thing enlightenment makes us act restitution action



Speculative Everything (Book)

Design Fiction (Book)

Experimental Realism: (Design) Fictions and Futures (Book)

Near Future Laboratory Podcast

School of Critical Design https://www.critical.design

Speculative.Edu https://speculativeedu.eu/

Design Futures Initiative https://www.futures.design/

Primer Conference https://www.2022.primerconference.us/

THANK YOU!

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