

# DTU 2019 SKYLAB



**I am proud to say it has been another tremendously busy year in the DTU Skylab community. Throughout 2019, we have seen an influx of engaged students, researchers, corporates, and organizations, all contributing to the many fantastic projects and activities at DTU Skylab.**

In 2019, DTU Skylab opened our DTU Skylab Digital, a space dedicated to collaboration in regard to the digital technologies playing an ever-increasing role in shaping our lives and future.

In this area and others, all the talent flowing through DTU Skylab helps us excel as a learning environment, a space to meet and collaborate across areas of expertise and develop visionary real-world solutions to make a true impact.

This is also the case with regard to sustainability, another area central to the pursuits of DTU Skylab. Throughout 2019,

our engaged community helped set the agenda in this area together with the rest of the University, both in Denmark and in an international context.

2019 has also been a year of progress on the building site outside our windows, where the expansion of DTU Skylab is taking shape. We look forward to increasing our capacity and welcoming even more exciting people, activities, and projects in 2020.



**Mikkel Sørensen**  
Head of DTU Skylab

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# Who we are

DTU Skylab is DTU's living lab for innovation and entrepreneurship. We match state-of-the-art technology and science with an ambitious and open community, where students, researchers,

and corporate partners meet to exchange knowledge and develop visionary solutions for real-world challenges. At DTU Skylab, the convergence of technologies and talent from different fields, combined with

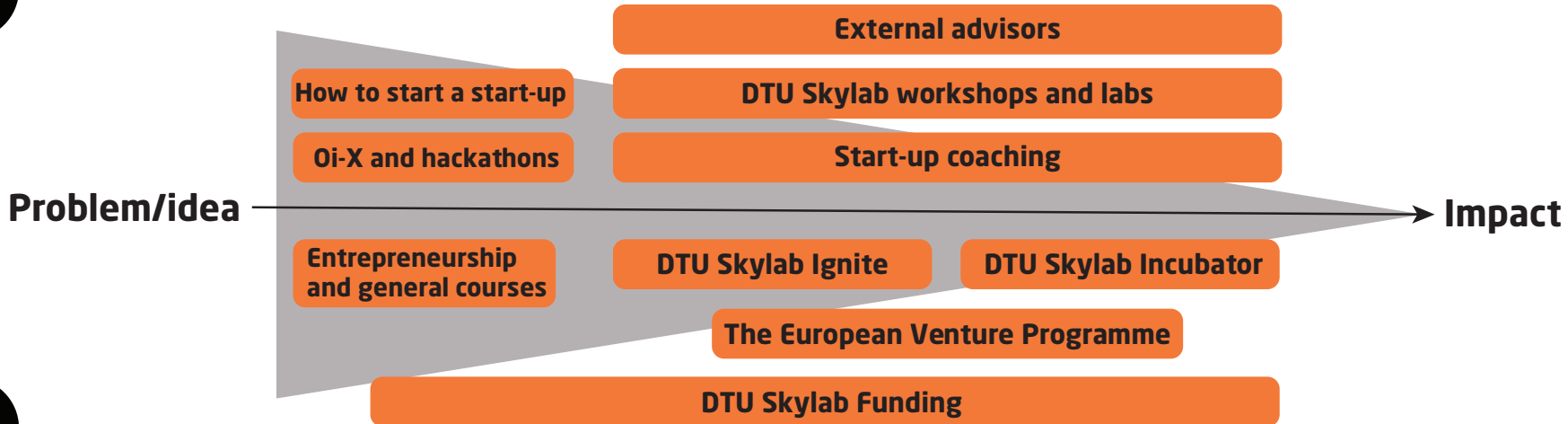
an entrepreneurial mindset, creates a unique culture of innovation and learning for everyone involved in our community.

**AMBITION:** We explore with passion and reach for the sky

**OPENNESS:** We believe in sharing and learning from others

**COURAGE:** We try, fail, and learn repeatedly, and we dare to push boundaries

# The DTU Skylab start-up journey —



## From idea to impact through DTU Skylab.

Students, researchers and corporates participate in the DTU Skylab community in many ways. Some students have courses using the facility, some drop

by and present their ideas to start-up coaches, get assistance from our external advisors or apply for soft funding grants through DTU Skylab Funding. Many students also enrol in one of our extra-curricular programmes with international

reach, supporting students in realizing their vision. Coaching and challenges are often provided by the corporates or organizations, who are also part of the DTU Skylab community. Our labs and workshops are where students and start-

ups build and develop their prototypes with assistance from our specialists, as part of their journey. Together, the activities at DTU Skylab function as an important part of the wider DTU ecosystem for innovation and entrepreneurship.





## Learning through innovation and entrepreneurship

**DTU Skylab functions both as an innovation hub and a learning environment for students aiming to transform their ideas and knowledge into real world projects and prototypes.**

As a learning environment DTU Skylab hosts formal curricular courses from all over DTU and a vast array of extra-curricular initiatives and programmes driven by our community.

As an open and cross-disciplinary community of creators sharing ideas and visions with each other, DTU Skylab facilitates the meeting of students, corporate partners, and researchers, paving the way for collaboration and experiments using a trial-and-error approach. The goal is to equip students with an entrepreneurial mindset and a skillset to tackle real-world problems, try out brave new ideas, and make a true difference in the world as future engineers.

➤ In 2019, DTU Skylab has been the learning space for more than 1300 students, fuelled by innovative teachers running different courses such as Hardtech Entrepreneurship, Biomedical Prototyping, and Deep Learning.





Photo: Uffe Frandsen

# Activating technologies for sustainable change

**DTU Skylab works strategically to engage and inspire students and partners in addressing the UN's 17 Sustainable Development Goals (SDGs).**

This year, DTU Skylab activated students and innovators both in Denmark and

internationally. Our goal is to build a community for sustainability initiatives through partnerships. Join us!

## **Oi-X**

Around the themes Impact Cities and Green Mobility, the DTU Skylab programme Oi-X gathered 15 partners,

50+ mentors and 160 developers in two innovation sprints creating innovative and sustainable solutions covering areas ranging from avoiding crop disease using satellite data to waste management in the City of Kisumu in Kenya.

## **Our goal is to build a community for sustainability initiatives through partnerships.**

### **Next Generation City Action**

As part of the C40 World Mayors Summit, Next Generation City Action brought 100 young professionals as well as partners and politicians from all over the world together at DTU Skylab to discuss and develop sustainable solutions for the cities of the future.

### **Technology Leaving No One Behind**

'Leaving no one behind' is a central

pledge behind the SDGs. Anchored at DTU Skylab, the initiative 'Technology Leaving No One Behind' aims to make universal design part of the curriculum for future engineers at DTU. The initiative focuses on inclusion and accessibility in both educational and entrepreneurial activities. 'Technology leaving no one behind' is a partnership between DTU, the Beveca Foundation, and Disabled People's Organization Denmark.

### **DTU Skylab FoodLab**

The DTU Skylab FoodLab takes a systems-level, yet human-centered approach to the future of sustainable food systems and technology. With a focus on building connections across stakeholders – eaters, farmers, policy makers, chefs, and industry – the FoodLab supports projects to build thoughtful solutions. The lab provides a space for students, entrepreneurs, and scientists to experiment and create new food products, agricultural technologies, and business models through both its mentorship and its physical kitchen laboratory.

# 2019 in Numbers —

## COMMUNITY ENGAGEMENT



**4,488** room bookings

**102**  
events



**4,000+**

Night Owls  
from 10pm-6am

**90,689**  
visitors  
(door count)

**143**  
delegations



## COMPANY COLLABORATION

With a total  
of **525**  
participants



## ACADEMIA

**18** courses from  
**9** departments  
**1312** students

**9** hacks with companies  
and organizations

**20** companies/organizations in larger collaborations

DTU Skylab Funding  
programme

**1,605,710**

DKK

handed out to

**15** start-ups



## START-UP SUPPORT

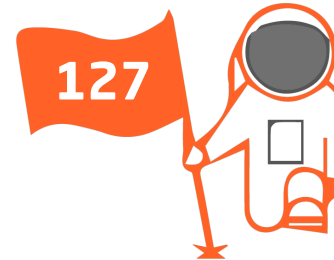
**53**

pro-bono  
advisory sessions

**43**

DTU teams in start-up  
programmes

**65** external start-ups  
hosted and assisted



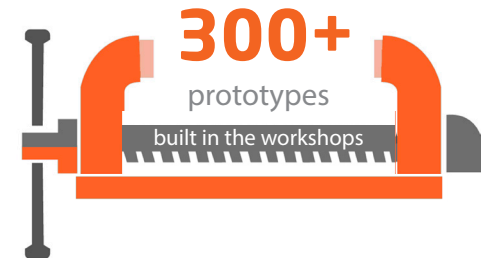
DTU start-ups  
/ pre-start-ups  
received coaching

## LABS & WORKSHOPS

Jobs performed  
by laser cutter



**9500+**



**300+**

prototypes

built in the workshops



Photo: Kaare Smith

# Making the digital real

**DTU Skylab Digital connects expertise from researchers, businesses, and students to create synergies around making the digital real and address the growing demand from industry for digitally competent graduates.**

The facility offers tools and sandboxes for working digitally with iterative development and rapid prototyping. This is possible through software and hardware platforms to support work with IoT, AI, blockchain,

## DTU Skylab Digital is the anchor of a national digital knowledge hub

cloud storage, and cloud computation. To support start-ups and students working in these areas, DTU Skylab Digital provides access to high power computing

and datasets to be used for experimenting with big data. As part of the DTU Skylab ecosystem, DTU Skylab Digital facilitates events, meetups, and challenges to bring together the best of students, researchers, and corporates, both from inside DTU and the outside world.

➤ **DTU Skylab Digital is the anchor of a digital knowledge hub with the goal of strengthening research and the practical application of emerging technologies such as AI, IoT, and blockchain in Denmark. The Digital knowledge Hub is a partnership between departments at DTU, IT University of Copenhagen, University of Copenhagen, and Copenhagen Business School.**



# Events 2019

C40 Next Generation City Action | 4th Conference On Digital Learning Technology – DTU Compute | Ambassador event | Wild and feral food week | Farming in the 22nd Century: The Future of Tech in Agriculture | How To Fund Your Pre-start-up Business Case | Green Entrepreneur | PhD Seminar DTU Compute | DigiDiveX | DTU start-up game simulation for highschool | European Venture Programme | Growing Food | AI & Big Data tracks at HTS | How To Start A Start-up | HTE - Spin-Out Day | DTU Skylab Ignite | Infonight for start-ups | ValHacks | Hack Folkemødet | Oi-X Green Mobility | Pizza and pitches | Preseed Academy | SDG Workshop | Skylab Info Day | Skylab Tech Talks and Tunes | Smart City Hub #2 – Design The Future Recycling Station | X-Tech Finals | RegLab: Promoting Circular Change | Competition and Final Event, AI and Multi Agent Systems | FoodTechVelopment | Founders of Tomorrow | High Tech Summit & Start-up Fair 2019 | Life As A DTU entrepreneur | Nimbs Pitch event | Skylab SDG Workshop | Smart Cities & Cyber Security Hack | Technology Leaving No One Behind KICK-OFF EVENT | Oi-X Impact Cities | Climate-KIC | Nordic Green Growth Project Gathering and Exchange | The Impact of Data and Technology on Healthcare: A 2030 View | Venture Cup | Conflux kick-off event | Meet up for clinicians & health-tech start-ups | Neural Student Society | Plastic-Free Campus SDG Student Ambassadors | Foodhack China | Climate KIC Smartgrid Hackathon ... **And many more**

# DTU Skylab Business Club

DTU Skylab Business Club is a membership-based initiative which offers an easy way to access the DTU Skylab Community for corporates and organizations. Company collaboration is an essential part of our efforts to get the knowledge of DTU students

**The goal is to promote the exchange of ideas for the benefit of everyone involved in our community**

and researchers connected with businesses and organizations. The goal is to promote the exchange of ideas for the benefit of everyone involved in our community. All businesses and organizations with an appetite for technological entrepreneurship are invited to join. Get in touch to learn more about the opportunities we can offer your company or organization and to sign up.



Photo: Uffe Frandsen



# The new DTU Skylab —

The expansion of DTU Skylab adds 2,800 m<sup>2</sup> of space, complete with a Developer Floor for working on prototypes, new work spaces, a café, a Skybar, and an arena which functions as a hybrid between an auditorium and an event area. The mix of spaces is meant to encourage cross-disciplinarity and the development of ideas and prototypes, and to support the DTU Skylab community both in terms of entrepreneurship and as an excellent learning environment. The expansion opens late summer 2020 and will be certified to the highest standard of sustainability. It is made possible by a generous donation of DKK 80 million from the A.P. Møller Relief Foundation (Den A.P. Møllerske Støttefond).



Photo: Kontraframe



Rendering: Rørbæk og Møller arkitekter A/S

# A big thank you —

DEN A.P. MØLLERSKE STØTTEFOND

*A. P. Møller og Hustru  
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**BEVICA**  
FONDEN

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 Verner Overgaards  
Familiefond

*Christian Nielsens Fond*

**Tranes Fond**

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The Danish Industry Foundation

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of Denmark

 **ERHVERVSSTYRELSEN**

 **Trafik- Bygge- og Boligstyrelsen**  
Danish Transport, Construction and Housing Authority

 **Interreg  
Europe**  
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**TUBORG  
FONDET**



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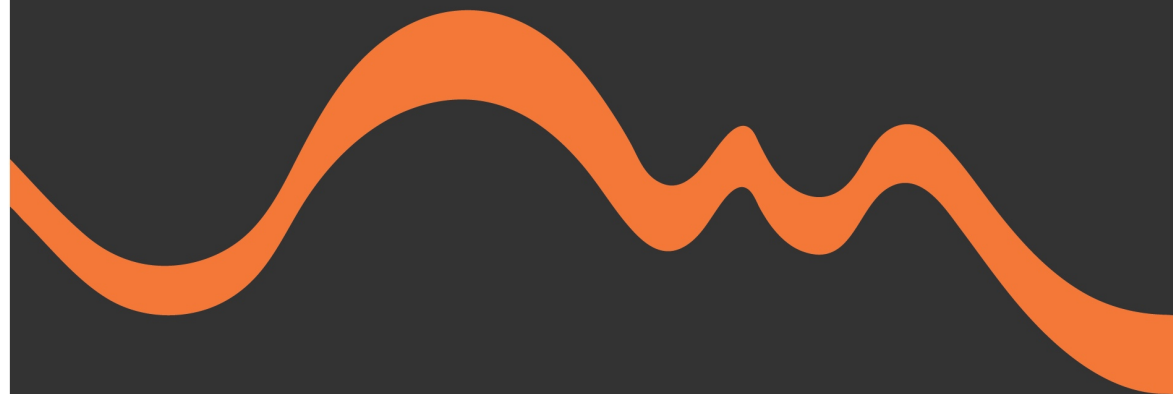


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