

SPOTLIGHT ON URBAN TECH IN EUROPE

The ultimate smart investment opportunities guide
for navigating Europe's urban tech development

EXPERT INSIGHTS - NOVEMBER 2020



URBAN
TECH

MUNICH, GERMANY



KYIV, UKRAINE

EXPERT INSIGHTS



GENERAL INTRODUCTION

See Intelligence and Forglobal have joined forces to uncover Europe's Urban Tech with support from our independent advisors: AMENA Trade and Investment, Creatives Loop and Emerging Europe.

We explore opportunities for smart investment in 30 European cities, when navigating Urban Tech developments. It is not a ranking, but a selection of the most promising European cities and an understanding of the businesses involved.

The impact of covid19 is on everyone's mind, but we will discuss how to overcome the obstacles, adapt and successfully approach the opportunities in terms of Smart Cities and Urban Tech in order to create value and develop a sustainable disruptive business model.

In this twelve-month online programme, you will explore what developments and solutions are in both Western and Eastern Europe and how to navigate them with monthly webinar discussions and expert insights.

You will have the opportunity to engage with potential clients, partners, experts and cities to strengthen your international network. Get direct access to company representatives, industry experts, senior city officials, academics, respondents, interviewees and sponsors.



HOW COLLABORATION BETWEEN CITIES DRIVES URBAN TECH DEVELOPMENT

To understand the smart city and urban tech ecosystem and the impact of the relationships to retain business, drive investment growth and innovation we based our discussions on the triple helix of city governments, businesses and academics. For this reason we operate a fixed format where we introduce the experience of city governments from Western and Eastern Europe, practical expertise from commercial businesses and the theoretical viewpoint of academics.

In November we discussed: The impact of COVID 19 and the second wave. How cities and businesses have adapted and what technologies have been vital in order to achieve goals with both immediate and 'slower emergencies'. With efficiency, supply security and environmental sustainability as strategic objectives of energy policy we asked our panel to discuss how this has led to new technologies, organizational changes, collaboration amongst cities, corporates and academics. From a city perspective, we highlighted why is it important to be involved in urban tech development and answer the question, how does that translate to smart future investment and opportunities for both cities and businesses?

The webinar is available to view on the website www.urbantech.world and this *Expert Insights* is designed to offer additional information and advice from our expert panel in order to expand on the original discussion.

You can learn from the experts' key takeaways and find more detailed answers to some of the questions discussed within the session.



KEY TAKEAWAYS

- 1** For long-term positive impact on society & environment as well as economic competitiveness, sustainability criteria need to be embedded in the heart of urban technologies. Munich has an innovation infrastructure and culture that supports development of cutting edge hardware and software solutions for a just and sustainable future, in Europe and worldwide. (Heba Aguib)
- 2** Many clean tech solutions are already out there and need to be scaled up. To implement and scale clean tech solutions in urban areas, we need to bring together innovators, investors, companies, politics – and citizens. (Heba Aguib)
- 3** Now and in the future, we might see the breakdown of classic sectors and silos which drives new partnership, transparency and new technology potential (i.e. spatial finance, other public and private service companies and digital tools to combine mobility, health and communication needs) In addition, we expect to see greater transparency coming from the increasing accessibility of space data and new applications for the public sector. Finally, it is clear that new models of collaboration and partnership will drive new, multi-disciplinary and innovative approaches to tackling air pollution and climate change. (Cassi Welling)
- 4** Covid-19 is the most ‘practical’ Stress-test for the entire city system, which is something we could not have foreseen. Kyiv was not 100% ready for the pandemic, but if we talk about specific areas, some of them were more ready to go online than others (Yuriy Nazarov)
- 5** Naturally, if we are talking about the introduction of some technical innovations, it is sometimes quite difficult to do without physical presence. But technologies at this stage allow us to reduce personal presence to a minimum. This approach enables us to conditionally "open borders" and facilitate work with international companies, which is not insignificant for the exchange of experience. (Yuriy Nazarov)



INTERVIEW with Yuriy Nazarov, Innovations & Smart City Technologies Expert, NGO Smart City Hub; & represented Kyiv as CIO from 2016-20

Questions from the main discussion:

The impact of the 2nd wave of Covid-19 pandemic on Urban Tech initiatives in Kyiv

Kyiv, as well as other cities, have realized the importance of remote solutions. The pandemic has shown how unprepared we are for such situations, and further highlights all of the weaknesses of the urban infrastructure. We have changed our approach to decision making and future development model building. We have had to quickly adapt and become more flexible in all aspects of our work. In workflow organization, planning, communication, etc.

Covid-19 is the most 'practical' stress-test for the entire city system, which is something we could not have foreseen. Kyiv was not 100% ready for the pandemic, but if we talk about specific areas, some of them were more ready to go online than others:

Medicine: we have implemented online appointment to avoid queues

Transport: e-ticket launch (top-up terminals, possibility to pay by mobile phone or QR code), e-parking (possibility to pay for parking via mobile application)

Education: online education has been launched at a national level. In Kyiv, there is an educational platform that offers the opportunity to conduct online lessons and to control quality of education (e-journal, e-diary).

Services for citizens: Kyiv Smart City App (fares in public transport, e-parking, online voting for Participation Budget projects, payment of a penalty for removing a car), a Resident's office, the ability to receive online inquiries, Local governments and ministries have expanded the list of services, which can be obtained online (for example, online registration of legal entities, certificates from the Tax office and the Ministry of Justice, and also cancelled some types of certificates, for example, registration certificates).

Entertainment: delivery services have increased (Glovo, Raketa, Uber Eats)

For city authorities: e-document management, corporate communication services (mail, Skype for business).

How are the roles of the private and public sectors evolving in selecting and implementing urban technologies?

One of our key goals is to build the relationship between the government, private sector, businesses, and investors. We are building an ecosystem in which this relationship is not only mutually beneficial but also useful to society.

The main desire of the city to get as much as possible in the shortest possible time and cost. The desire of the private sector to sell its solution, implement and get the client as a whole city. Our role is to combine these approaches and get the maximum result.

From a city perspective, why is it important to be involved in urban tech development? How does that translate to smart future investment and opportunities for both cities and businesses?

The introduction of new technologies and solutions directly affects the development of the city, its residents and living standards and with the improvement of living standards, we get an investment advantage.

A modern developed city is an equal ecosystem in which everyone wins. The most important thing for the city is to demonstrate successful cases for business so that they understand the practical components and all benefits (and potential pitfalls).

Business need to demonstrate to the city that they solve the most pressing and problematic issues that will affect the whole system in the future.

INTERVIEW with Yuriy Nazarov, Innovations & Smart City Technologies Expert, NGO Smart City Hub; & represented Kyiv as CIO from 2016-20

Questions from the Q&A:

What key recommendations do the panellists have to successfully deploy and scale urban tech solutions offered by commercial businesses to cities?

First of all, for successful implementation of urban technical solutions commercial enterprises must demonstrate their expertise and necessary experience. After all, the city must be confident in a decent level of solutions. Important components are also demonstration of existing working cases, properly prepared analyst, which will demonstrate the usefulness of the implementation of a particular solution for the city and its residents.

Very often the city is ready to go to meet companies, if the solution will be interesting and allocate the resource for the launch of the pilot project before full implementation.

Can providers of urban technology successful sell and service their solutions remotely?

The reality has now shown that we must all learn to work in a new way. At this moment, we are solving daily remotely those tasks that we could not even think about before. Today it is absolutely normal to hold meetings and presentations online.

Naturally, if we are talking about the introduction of some technical innovations, it is sometimes quite difficult to do without physical presence. But technologies at this stage allow us to reduce personal presence to a minimum. This approach enables us to conditionally "open borders" and facilitate work with international companies, which is not insignificant for the exchange of experience.

INTERVIEW with Dr. Ing Heba Aguib, Chief Executive RESPOND at BMW Foundation Herbert Quandt, Munich

Questions from the main discussion:

Q1 - “The opening question for our panellists is anchored in the present and the impact of the 2nd wave of Covid-19 pandemic on Urban Tech initiatives. Munich (Heba) would you like to kick us off with your perspective on the impact of Covid-19 in the City of Munich?” (then follow up with Yuriy on Kyiv)

- The Covid-19 pandemic has led to unmatched economic and social crises worldwide.
- Crises, such as the Covid19 pandemic, can encourage transformation of cities and systems.
- The last year revealed the importance of uniting in our efforts to transition towards a more sustainable system.
- The pandemic has also highlighted the urgency to act now: In Munich, we see processes and structures becoming more flexible.

BMW Foundation Accelerator RESPOND is the first accelerator program that promotes responsible leadership and scalable sustainable-business-models. The program is led out of Munich by BMW Foundation and operated by UnternehmerTUM: <https://respond-accelerator.com/events/demo-night/>

Tech for Good contributes to a sustainable future and bridges industries and sectors. RESPOND supports leaders and start-ups that create tech for good. In our BMW Foundation Report “Protect | Empower | Transform – Tech innovations changing the world” we featured a variety start-ups, investors and experts of who highlighted the great potential of tech solutions: <https://bmw-foundation.org/wp-content/uploads/2020/11/bmwfoundation-techforgoodreport.pdf>

BMW Foundation Program RISE cities brings together citizens, political actors and entrepreneurs to enable solutions to various key challenges such as reducing environmental pollution and inclusive urban planning: <https://bmw-foundation.org/how/sustainable-cities/>

- The pace of digitalisation has significantly increased during the past months compared to the years before the pandemic. This effort is driven by governments and companies in Munich and worldwide to serve the needs of an urban population.
- With the virus affecting our daily lives, we need local solutions that respond to the specific health and living situations in cities and scalable solutions to solve global challenges.
 - o Therefore projects focusing on urban tech gain importance.

The #WirVsVirus Hackathon by the German government and RLs: An example for cross-sectoral innovation with local focus

- The Hackathon by the German government brought together society, businesses and government to form and discuss innovative tech solutions to problems in the context of Covid19. This initiative helped people adhere to social distancing measures --- especially in crowded cities.
- Several Responsible Leaders of the BMW Foundation’s Network were key enablers of the Hackathon: These include Philipp von der Wippel, managing director of ProjectTogether; Leon Reiner, managing director of Impact Hub Berlin; and Markus Sauerhammer, chairman of SEND e.V. (Social Entrepreneurship Netzwerk Deutschland). <https://twentythirty.com/article/wirvsvirus-sprinting-through-the-marathon-projecttogether-send-impact-hub-berlin-corona-crisis-hackathon/>

INTERVIEW with Dr. Ing Heba Aguib, Chief Executive RESPOND at BMW Foundation Herbert Quandt, Munich

- Example Project managed by Technical University Munich: Digital Waiting Room – A platform that for people potentially infected with Covid19. It guides through the process from identifying symptoms and testing to adhering to current quarantine protocols and recovery.
- There are two important dimensions to the potential of cleantech solutions for cities: Innovative technologies but also digital platforms/formats to discuss solutions
- Another example is the Munich Start-up conference Bits&Pretzels, held in Se internationalization / forming new connections / strengthening networks
 - o Munich Start-up Conference Bits and Pretzels as a digital (hybrid) format enabled a much broader and more international audience to participate
 - o Such experiences lay the ground for more digital events in the future

Q3 - The Bavarian Ministry of Economic Affairs has set efficiency, supply security and environmental sustainability as strategic objectives of its energy policy and Munich has become a leading European location for cleantech companies. Can you share with us how disruption and transformation by cleantech will further impact Munich?

Fast change is possible – as we experienced since the start of the pandemic. Now, we need to thrive on this energy and put forward sustainable innovative solutions such as clean tech. Key stakeholder groups are and need to be involved in developing and implementing clean tech solutions in urban areas: Politics, Innovators and Investors.

The political sphere has already made decisions and policies such as the European Green Deal

- The European Green Deal is a plan to make the EU's economy sustainable with the goal that there are no net emissions of greenhouse gases by 2050, economic growth is decoupled from resource use and no person and no place is left behind
- Such political strategies strongly impact innovation and city design, also here in Munich

Investors increasingly support sustainable technologies. VCs like Übermorgen (<https://www.uebermorgen.vc/>), for example, focus on early stage climate tech start-ups.

Cleantech Start-ups are a key driver for innovative solutions with a creative and dynamic mindset and the goal of integrating sustainability into the core of their business. Collaboration between various sectors and stakeholders is key for a successful transformation: We need to bring all stakeholder together and strengthen the sustainable entrepreneurship ecosystem in order to facilitate systemic change, in start-ups and in established corporates.

RESPOND supports innovation and tech start-ups from all over the world and brings them together in Munich

- Fosters cooperation between start-ups and companies
- Enables long term integration of clean technologies in business and politics
 - o A great example for cleantech start-ups collaborating with various stakeholders in Munich is of course HawaDawa, which was also part of the first RESPOND cohort
 - o Other examples of Munich-based cleantech start-ups are: Lilium (developing electric air taxis), tado (a smart device for intelligent heating and cooling)

INTERVIEW with Dr. Ing Heba Aguib, Chief Executive RESPOND at BMW Foundation Herbert Quandt, Munich

Questions from the Q&A:

What key recommendations do the panellists have to successfully deploy and scale urban tech solutions offered by commercial businesses to cities?

Collaboration of businesses, citizens and cities, and innovators should be designed carefully in order to integrate needs and applied solutions for urban tech innovations. Tech and sustainable ecosystem need to be strengthened and integrated to successfully implement of urban tech solutions. The BMW Foundation supporting scaling of urban tech solutions with two complementary initiatives: RESPOND for implementing cutting edge technologies and RISE cities for understanding citizen needs and solutions.

RESPOND supports promising tech for good start-ups by helping them to advance the way they lead, grow and scale their business.

- RESPOND offers a 5-months of hands-on program of personal mentorship and relevant support in all business areas: We teach responsible leadership for better management and company culture. We support the start-ups in getting a broad media coverage through international public relations, our own channels and diverse network. We serve as a platform to connect sustainable start-ups with investors integrating our global network of responsible leaders. The RESPOND Demo Night was a hybrid event giving start-ups with the chance to pitch their business in front of representatives of large corporations, investors, politicians and the start-up ecosystem (<https://respond-accelerator.com/events/demo-night/>)

RISE Cities: the RISE city labs enables inclusive solutions driven by innovation and citizen engagement.

- It thereby promotes the development and spread of scalable local solutions for resilient, intelligent, sustainable, and equitable (RISE) cities.
- RISE cities will address various key challenges such as reducing environmental pollution and inclusive urban planning. For example, a RISE City LAB here in Munich in exchange with the Wirtschaftsreferat München with a focus on mobility.
- Examples of RISE Cities in action are: Partner at Creative Bureaucracy Festival (<https://creativebureaucracy.org/de/festival-2020/partner/partner-bmw-foundation/>), Co-hosting Denkraum Athens (<https://athens.impacthub.net/denkraum-athens-sustainable-cities/>), Participating in a Circle Table at Berlin Science Week (<https://falling-walls.com/event/circle-tables-rise-resilient-intelligent-sustainable-equitable-cities-through-new-allies/>)
- Clean Tech could play a crucial role in meeting those challenges. But it is important to align technological innovations with true needs of cities and citizens. Collaborative formats have the potential to provide impactful long-term solutions.

INTERVIEW with Cassi Welling, Chief Operations Officer at Hawa Dawa

Questions from the main discussion:

What have you learned about air pollution in cities; what you believe can be achieved by using technology; and how that led you to the work you do now?

To run through the broad changes:

- There is a clear change in cities wanting and need to move from purely reporting, academic approaches to air quality monitoring, but we continue to see a mix of digital & analogue approaches, in some cases very granular and robust yet not comprehensive enough to take clear investment decisions on where, when and how best to target pollution.
- Now AQ makes headlines (COVID, 'dieslegate', air quality emergencies', WHO's 9 in 10 people breathing polluted air figure, 'hit list' of poorest countries in the world...etc). Things are changing; cities see the benefit of having access to a huge pool of digital environmental data at their fingertips for designing and manage their urban systems (traffic, healthcare etc.) more sustainably. Digital twins can be extended to the environment, climate, air quality. Hyper-local data can mean more effective decision making, more efficient investment, well-targeted, impact-driven, and the chance to be proactive not reactive.
- There is however still considerable disparity when it comes to air quality (urban poor are disproportionately impacted)
- Digitalisation and new data protocols mean interoperability and scale (for both the private sector and now public sector) are critical. Integration of new data, solutions, technology into electronic health systems, traffic management systems etc. needs to be secure, quick, modular and easy. The Oxfordshire County Council innovation lab is a good example in this space. They are guided by regional objectives, growth targets and challenges. but they are very active in piloting new technologies, gathering data from these pilots and working with the private sector to understand better how to address local challenges.
- COVID and a focus on a sustainable recovery, the Green Deal etc. will bring further changes. From an air quality and healthcare perspective, there will be new respiratory needs, a new healthcare burden etc. which will drive the need for new tools, combining navigation & health e.g. There will be new technology possibilities (i.e. satellite data), new business models and standards for data collection and access, and new focus topics which drive even more interest in air pollution: citizen science & engagement; wellbeing & lifestyle; place-making; new development and smart buildings integrating air quality into their design, AQ becomes a quality of life indicator, a factor which demonstrates human and economic growth.

How are the roles of the private and public sectors evolving in selecting and implementing Urban Technologies?

- New collaborations are taking shape that are now combining academia, not-for-profit, private and public sectors; we are looking at e.g. Breathe London, Climate Trace, OpenAQ in the space of air quality. New forms of citizenship engagement and transparency are becoming more relevant than ever for cities. New alliances and groups of smaller municipalities are benefiting from working together, sharing services, becoming digital. Examples of this in Munich might be Nordallianz and WestAllianz. Many of the topics that are being addressed by urban technologies are cross-cutting and involve the pooling of budgets and resource and solutions from the private sector: air quality and environmental improvement, health and well-being, ageing, the economy.

INTERVIEW with Cassi Welling, Chief Operations Officer at Hawa Dawa

- In addition, for us, infrastructure companies play an important role in bridging the gap between the public and private sector; many are offering a social / economic good but are also in need of new revenue streams and business models to drive growth. They equally need to drive efficiencies, invest in new space, set up new intra- / innovation programmes and partnerships and digitise.
- European funded instruments and organisations (ESA, EIT, H2020 etc.) continue to play a role in bringing together players from both the public and private sectors to pilot new technologies, new partnership in the developing of new city quarters or redevelopment. Urban labs are less a space for pure research and more a space for human interaction, bringing culture, economy and wellness together - redevelopment is increasingly opening up to private sector and often taking place in older or regenerated parts of cities, bringing new investment into formerly deprived or industrial areas.
- Digitisation is driving much change in the public sector, but still the topics of data generation & collection, ownership, transparency and openness will continue to be debated. Cities will want to own their data but they will also be the ones to benefit from monetizing it sensitively and to the benefit of citizens and the local economy.

Questions from Q&A:

What key recommendations do the panellists have to successfully deploy and scale urban tech solutions offered by commercial businesses to cities?

Find C-level / city leadership champions within the public sector who have a mandate (and where possible a strong personal motivation) to pilot, roll-out and champion your area technology (be it energy efficiency, sustainability, mobility etc.). Instigate and nurture partnerships with other private sector partners who can serve as resellers or new multipliers for your solutions. Build in interoperability and scalability from the start, understand the implementation and operational context and ensure you focus on smoothing that process in any pilot as far as possible. Focus on user experience and ensure that any technology intervention has clear success metrics and its impact can be measured and reported. If something can be scaled and replicated elsewhere, you offer the chance for any city to be a pioneer in that space and to support the roll-out elsewhere.

Can providers of urban technology successful sell and service their solutions remotely?

Yes - of course; but be sure you have a clear business model; be clear on roles & responsibilities, timescales and scope; make sure that what you're selling can be rolled out and maintained in a standard way. Think about your operational and business model and limit scope so that both sides of any relationship is clear about what is covered within a contract and what not. Consider how you can piggyback existing municipal or utility operations to make servicing and maintenance more efficient and build that into any agreement from the start.

UPCOMING WEBINARS

URBAN TECH

**SPOTLIGHT ON URBAN TECH
IN EUROPE** *THE VIRTUAL SERIES*

TOULOUSE, FRANCE **KRAKOW, POLAND**

Webinar 5: Pros and cons of applying clean tech in developed urban districts

📅 14th Jan 2021 14:00 - 14:45 GMT / 15:00 - 15:45 CET [Register Now](#)

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[Register now](#) and don't miss out on our next webinar in the series. Each expert panel will include a representative from an Eastern and Western European City as well as a business and academic in order to better understand the full picture of opportunities for urban tech solutions. The next cities in the series will be Toulouse and Krakow.

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Contact us today to discuss your business goals and identify together a partnership format tailored around your needs.



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ABOUT US

See Intelligence and Forglobal have joined forces to uncover Europe's Urban Tech with support from our independent advisors. To view more information visit our website www.urbantech.world



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Forglobal supports international entrepreneurs expanding into new markets. The Forglobal platform is a web-based solution already in use by the investment promotion agencies of 40+ major world cities. The organisation believes that international business connects people across borders and strengthens local economies.

ADVISORS



PANELLIST INFORMATION



Yuriy Nazarov is Innovations and Smart City Technologies Expert, NGO Smart City Hub; and represented the City of Kyiv as CIO from 2016-2020. In 2015, he co-founded the Kyiv Smart City initiative which has brought together government, citizens and businesses to transform Kyiv into a smart city. In 2015 Yuriy started to work in the Kyiv City State Administration and for the past four years he has been Head of the ICT Department in Kyiv City State Administration. More than 40 projects have been implemented in a very short time under his leadership in the fields of Security; Transport; Medicine; Housing; E-government.

Within 5 years the **Kyiv Smart City Initiative** has become a leading player in the field of smart urban planning, based on the principles of open data, intelligent and transparent management and the transformation of Kyiv into an innovative, digital and progressive city. The main goal of the initiative is the introduction of the best practices of smart cities throughout Ukraine and the digital transformation of cities.



Kyiv Smart City Forum 2020 is the fifth annual Kyiv Smart City Forum since it was started in 2015. It is an open platform for discussions about the future and the event is considered to be one of the largest in Eastern Europe based on the topic of smart city ecosystems. It was conducted online for the first time on an innovative platform, bringing together 10,000 participants, including the world's leading experts on the development of smart cities and the introduction of new technologies in the lives of residents.



Dr. Ing Heba Aguib is Chief Executive RESPOND at BMW Foundation Herbert Quandt, Munich. She joined the BMW Foundation in July 2019 with the ambition to strengthen the link between Tech4Good and investors to make a difference. An engineer by profession, Heba believes that technology can play a crucial part in advancing the Sustainable Development Goals of the UN 2030 Agenda. Before joining the team, Heba has been a member of the Foundation's global Responsible Leaders Network since 2017.

Before that, as Head of the Biomedical Engineering and Innovation Laboratory for Aswan Heart Research Centre of the Magdi Yacoub Heart Foundation in Egypt and Honorary Fellow at Imperial College London, she led multidisciplinary projects for developing new computational solutions for early diagnosis and prediction modelling in cardiovascular disease. She is also the HealthTech Expert for the Digital Arabia Network, founded 2018. Heba studied Mechanical Engineering at Technische Universität München (TUM) in Germany, with a focus on numerical simulation and automotive engineering. After her studies, she worked at the Department of Aerodynamics at BMW AG in Munich. In 2010, she received a doctoral degree in Micro Technology and Medical Device Technology at TUM.

She also joined TU Berlin as Deputy Managing Director in 2011 to help establish the first satellite campus of a German public university in the MENA Region and Africa, run as a non-profit public-private partnership. She contributed to cross-sectorial projects in the fields of urban development, renewable energy, water management, and vocational education.

PANELLIST INFORMATION

**BMW
Foundation**
Herbert Quandt

On the occasion of the company's centenary in 2016, BMW AG expanded its commitment to corporate citizenship. Since then, the BMW Stiftung Herbert Quandt and the Eberhard von Kuenheim Stiftung have been combining their activities in order to increase their global impact. For this reason, the two foundations have consolidated their staff and operations into the BMW Stiftung Herbert Quandt. To account for the growing international orientation of the foundation, it was renamed "BMW Foundation Herbert Quandt" in 2017.

In 1959, Herbert Quandt secured the independence of BMW and thus laid the foundation for the successful development of the automobile company. In recognition of his entrepreneurial achievement, BMW AG in 1970 established the BMW Stiftung Herbert Quandt. Through its Responsible Leadership programs, global network, and impact investments, the BMW Foundation Herbert Quandt aims to promote the Sustainable Development Goals of the United Nations 2030 Agenda.



Cassi is Chief Operations Officer at Hawa Dawa, where she helps build internal capacity for developing successful external partnerships across business, policy and innovation. Prior to this, Cassi worked at specialist UK economic regeneration consultancy Hatch-Regeneris, where she undertook research to drive the development of high-tech and innovation sectors in the UK; held positions in the management & marketing teams at Europe's largest online language learning platform 'Babbel' and most recently managed an accelerator for innovative clean-tech ventures as part of Europe's largest climate innovation network, Climate-KIC. She is a member of the advisory board for Falling Walls Ventures and a loan editor for KIVA, a not-for-profit microfinance platform committed to improving access to finance for underserved communities.



Air quality data driven insights at your fingertips. Whether for mobility, smart health, responsive cities, city planning or prop-tech applications, Hawa Dawa's combination of IoT, AI and earth observation data allows it to generate ubiquitous data coverage of air quality, whilst its smart algorithms help you fully understand and capitalise on this new commodity. The company helps you navigate through this wealth of innovative data, co-creating new and sustainable products, services and revenue models for the next generation of business. In addition, its aptitude to understand and leverage air quality data from satellites and through cooperation with both NASA and ESA, means the company is changing the game on a global scale. Covering the entire value chain of air quality information end to end. Partners include companies such as MunichRe, Siemens, Swiss Post, Swisscom and many more.

The company has received several awards including from the German Federal Ministries of Traffic and Digital Infrastructure and the Ministry of Economic Affairs. It is counted among the Top Ten Innovators in Germany and subsequently Top 35 under 35 in Europe by the MIT Technology Review. Also voted the top Technological Concept by the Karl Kolle Foundation, winner of the Smart Cities Vertical of the Swiss Kickstart Accelerator and winner of the Copernicus Digital Transport Challenge run by the German Federal Ministry of Transportation & Copernicus Masters.