

A nighttime photograph of the Singapore skyline, featuring the Marina Bay Sands hotel on the left and the Singapore Flyer on the right. The city lights are reflected in the water in the foreground. A large, semi-transparent teal 'X' shape is overlaid on the image, serving as a background for the text.

Blockchain Innovation Challenge

Singapore/ Netherlands

11-15 November 2019, Singapore

Following up on Blockchain Innovation Mission to Singapore 2018

Background information

Singapore is quickly transforming into one of the most digitized and technology focused nations in South East Asia and in the world. This focus on becoming a Smart Nation, with a digital economy, government and society, also entails that Singapore has increased its attention on blockchain and AI solutions. While the first initiatives mainly have been in the financial technology (FinTech) sector, attention to blockchain solutions and applications in the fields of logistics and infrastructure, smart cities, digital health, urban farming and government services has been on the rise (e.g. the Infocomm Media Development Authority (IMDA), Govtech, SG Enterprise and SG-Innovate). The **Blockchain Innovation Mission to Singapore in November 2018** with a Dutch public/private consortium has shown that there is great potential for bilateral cooperation between the countries. Both Singapore and the Netherlands are experimenting widely with Blockchain. Where the Netherlands has proven to be good in creativity and experimentation, Singapore excels in the implementation of ambitious concepts. Combining these worlds could be mutually beneficial to both states.

As a result of the innovation mission on blockchain in November a **Dutch public private consortium** has been set up. They are working on a 3 year program focused on setting up blockchain collaborations with Singapore (G2G, K2K and B2B). A first milestone was the signing of a **Memorandum of Understanding between the Ministry of Justice and Security in the Netherlands and the Ministry of home affairs in Singapore**. The MoU establishes a framework to develop and facilitate activities and projects in the field of innovation as well as science and technology (S&T) in homeland and civil security matters. Projects under the MoU will focus on the exchange of knowledge, promoting joint research and the development, testing and evaluation of prototype technologies. With blockchain as one of technologies to collaborate on.

Potential for collaboration Singapore – Netherlands in field of Blockchain

Netherlands

- Blockchain trendsetter
- > 30 government blockchain pilots
- > 250 blockchain companies
- Large research community
- Public private partnerships: 'Dutch Blockchain Coalition' (> 100 members)

Singapore

- Smart nation, leading digital economy
- Main ICO Hub
- Open legal framework & Supporting government (eg IMDA)
- Strong industry interest
- Growing blockchain community

Both

- World class digital infrastructure
- Economic and digital hubs in the region
- Supportive/ active role government
- Shared challenges/ interests: logistics & trade, health, mobility, sustainability

Ambition: form international coalitions of companies/ organisations, transforming their chain across borders together



Mission to Singapore November 2019: connecting blockchain ecosystems and start pilot projects together

In November a high level Dutch delegation will visit Singapore during Fintech Festival/ SWITCH on the subject of digitalization, more specific blockchain and AI. This innovation & startup mission will consist of startups and companies, knowledge institutes and representatives of Ministries involved in the Dutch digitalization strategy (Ministry of Economic affairs, Justice & Security, Interior affairs). We aim to include the following elements into the program of the mission:

- Fintech/ SWITCH (Techinnovation)
- **Blockchain Innovation Challenge**
- High level meetings

Goal of the mission is to learn from the digitalization strategy and developments in Singapore and explore collaboration opportunities, build upon existing connections and bring together the blockchain communities and networks from The Netherlands and Singapore (such as IMDA, SG Enterprise and SG Innovate). The outcome should be real blockchain projects between SG and NL.

We bring together
different players
in the
Singaporean and
Dutch Blockchain
ecosystems

Blockchain Innovation Challenge: collaboration with The Next Web (TNW), Dutch Blockchain Coalition, SG Innovate, IMDA and SG Enterprise

The goals for the Blockchain Innovation Challenge:

- To share knowledge between different partners and stakeholders within the blockchain ecosystem.
- To bring the Dutch and Singaporean Blockchain ecosystems closer together and facilitate collaborations.
- To help corporates, governmental organizations and startups/ scale-ups from SG and NL to get easy access to each other and help them in setting-up collaborations and a pilot project together
- Growth of the blockchain ecosystem in Singapore
- To take away certain trade barriers (if applicable)

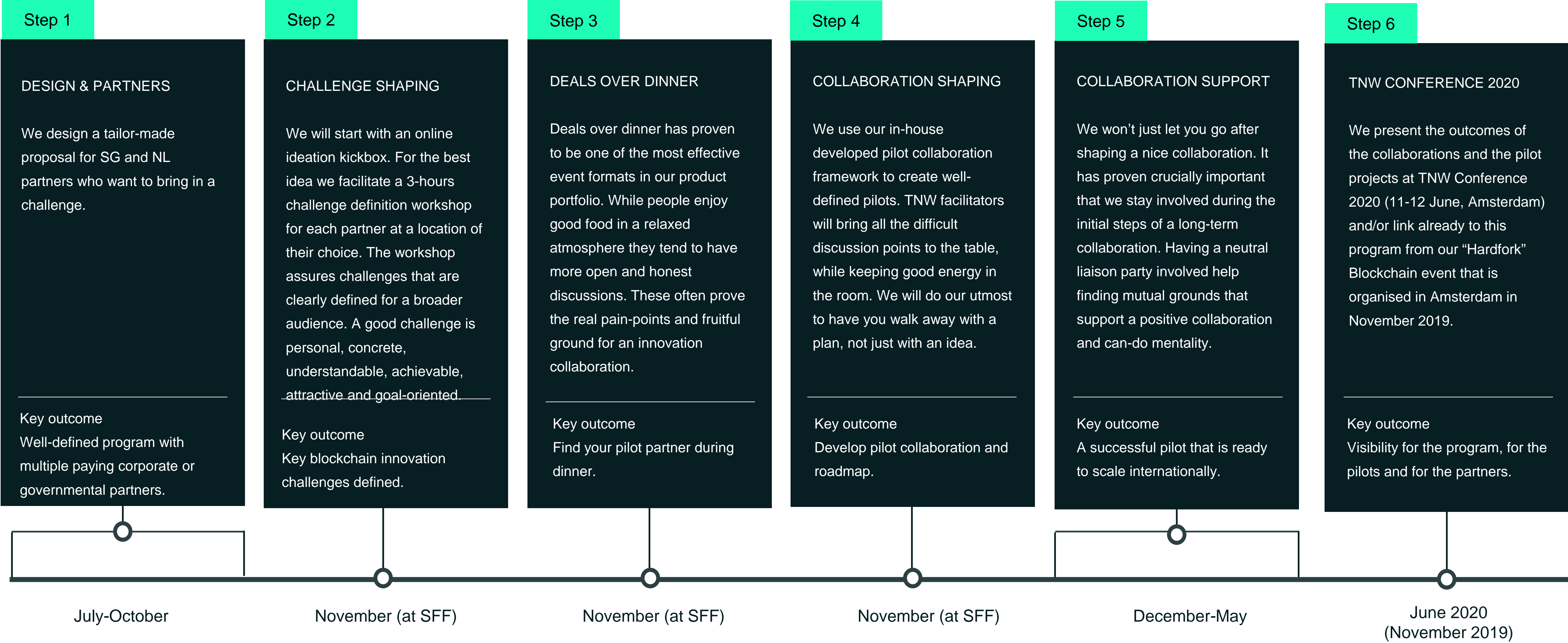
TNW has done this before

Vodafone IoT challenge: 80% of the pilots completed successfully

[Read More](#)



Program outline blockchain challenge- step by step approach



Step 1: Design & Partners

To be able to launch the program we need some proper preparation:

- on-boarding of Dutch and Singaporean corporate partners and startups / scale-ups who will participate in the innovation challenge
- In-depth plan, which contains a definition of tasks and roles, detailed timeline, way of working and definition of success
- Kick-off meeting
- Business owners involvement workshop
- Support corporations and governments from SG and NL in defining their blockchain challenges

Potential Dutch corporate partners in scope

- Rabobank
- Shell
- KLM
- ... tbd

Step 2a: Challenge shaping Use of ideation kickbox

To start the ideation process we can roll out the pre-developed "Kickbox". The online Kickbox is an efficient tool to gather bottom-up ideas. It empowers users with the tools to develop their own concepts from scratch. The kickbox inspires the users about blockchain technology with educational videos, enables to brainstorm on novel opportunities and advances these into initial concepts by doing a first validation round that can be done by the user itself. These initial concepts will be (in)validated by means of a series of steps without the need for an expert. Furthermore this Kickbox provides users with the opportunity to share their existing ideas and contribute to the development of the organization. For a visual impression of what the Kickbox looks like, see images.

MAKING YOUR BLOCKCHAIN IDEA A REALITY AT KRYHA

A digital ideathon for Kryha innovators

It keeps you up at night. A situation you want changed. A question you want answered. Ideas that need realisation. This Kickbox provides Kryha innovators with the resources required to unlock real, impactful opportunities enabled by blockchain technology.

Whether you already have ideas or not; it doesn't matter. Follow the steps and start innovating!

[Start your Kickbox](#)

[Started already and want to continue where you left off?](#)

STEPS OVERVIEW

Skip forward and back as much as you like.

Step 1 Blockchain 101	Learn about the basics of blockchain technology
Step 2 Dream Big	Let's start with thinking big and asking ourselves What If ... ?
Step 3 Come Up With Ideas	Ideating by combining your domain expertise with blockchain concepts
Step 4 Evaluate Your Ideas	You will verify whether your ideas are valid blockchain concepts
Step 5 Pitch your concept	We help you pitch your idea by creating a simple, self-explanatory sketch
Step 6 Submit your concept	Submit your idea and finalize your participation in the ideathon!

NEED BLOCKCHAIN FOR THAT?

A simple checklist

Let's verify whether your ideas are valid blockchain concepts

There are some downsides to using blockchain technology, so the technology should only be used in applications where its characteristics actually add value. Let's check that!

Check the boxes for idea 1

Using cryptoassets or cryptocurrencies for sending invoices

- Does your idea involve transactions of data or value?
- Does the idea require an immutable record/database?
- Are multiple parties involved who do not or should not fully trust one another?
- Are multiple parties involved, who share the same data and need a common real-time view?
- Is there a repeatable, predictable, ongoing process or transaction?
- Should new actions or data inputs be verified?

[Check](#)

Hmm, are you sure you need blockchain for this concept?

It seems like this concept could also be realized by using simpler technologies. We suggest you take a look at your other concepts or come up with something else. If you're still convinced about the validity of your idea, feel free to take it to the next step.

Check the boxes for idea 2

Using self-executing smart contracts for sending invoices

- Your idea involve transactions of data or value
- Your idea require an immutable record or database
- Multiple parties are involved who do not or should not fully trust one another
- Multiple parties are involved, who share the same data and need a common real-time view?
- There is a repeatable, predictable, ongoing process or transaction
- New actions or data inputs need to be verified

[Check](#)

Yes! This looks like a valid blockchain use-case based on your initial answers

You could decide to take this idea to the next step!

Kickbox is an initiative of



For questions please contact Tobias Disse at tob@kryha.io

Tips and tricks
"Transactions" could involve digital assets like money, but could also involve all kinds of data (sensor data, order data, etc).

Step 4: Evaluate your ideas
You will verify whether your ideas are valid blockchain concepts

Step 2b: Challenge shaping

To maximize success at the end of the program it is crucially important to define innovation challenges that are both solving a real business challenge and are engaging for startups. We focus on the pre-selected themes of our corporate partners and will support this program by focussing on finding global leading tech players for two specific challenges within the broader themes.

Example:

- 1) Theme = Post Trade Management Platform
- 2) Mission = A more secure, efficient and cost-effective trade platform for commodities trading
- 3) Innovation challenge = How can we digitize the global trading of oil by creating a secure, trusted ecosystem, powered by **blockchain**?

Outcome <https://www.vakt.com>

Technologies to power business transformation

- Advanced manufacturing & engineering
- Urban solutions & sustainability
- Health & biomedical services
- Services & digital economy
- FinTech

Potential topics

- Digital Identities
- Logistics and trade platforms
- Advanced manufacturing & engineering
- Urban solutions & sustainability
- Diploma's and certificates
- Health & biomedical services
- Services & digital economy
- Food safety and traceability

For challenges in the Netherlands see also:

<https://twitter.com/NLTopsectoren/status/1138723899963838464>



Step 3: Deals over Dinner

Deals over dinner is an opportunity for stakeholders which are needed to implement a blockchain solution to share a meal with each other and sign a small agreement of partnership or exchange to look towards working together in the future and start a pilot project together. Each challenge owner will have their own table and selected partners will enjoy the starter/main/dessert together, moving to a new collaboration at the end of every course. This matchmaking event proves that professional collaborations can be defined in a fast paced format, while having lots of fun!

How we do it:

We use the reach of both the Dutch Blockchain Coalition in the Netherlands and the partner network in Singapore to bring together an inspiring group of leaders in both blockchain ecosystems. Attendees will be asked to provide a description of themselves after which DBC & TNW will matchmake the table setting according to the provided descriptions.

Results over the last two years:

- 67 deals out of 60 curated matches over dinner
- Our event is highly recommended by attendees for which we received an average Net Promoter Score of 47,5



Deals over Dinner is an excellent format that quickly links startups and corporates in the tech ecosystem combining serious discussions with plenty of fun.

Korik Alons -
Founder of NLMTD



Step 4: Collaboration shaping

You've found a very cool blockchain team to work with, after having a great discussion at Deals over Dinner! But now what?

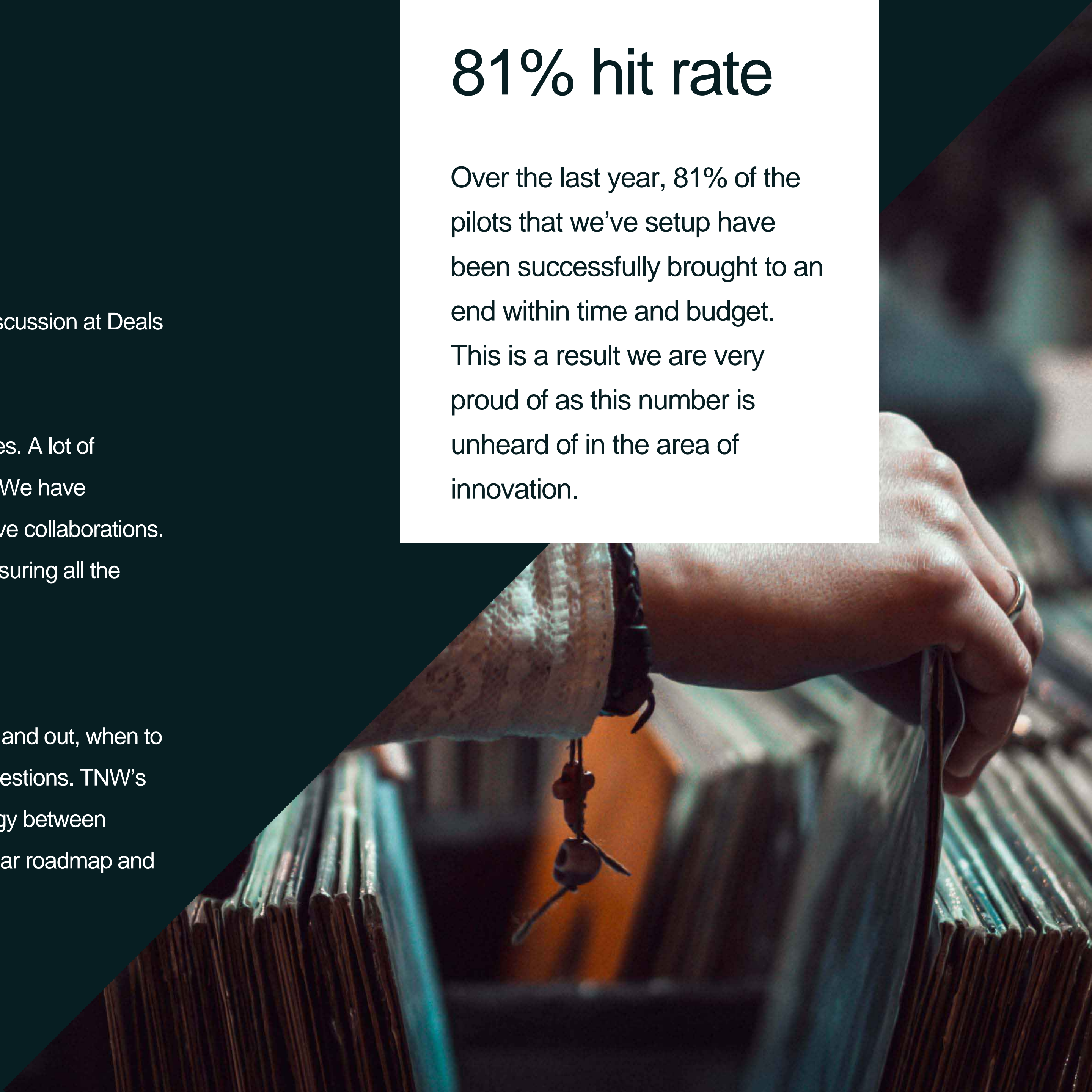
We have all been there, after ideating on a great innovation project it slowly dies. A lot of innovation projects fail, because expectations are not matching from the start. We have developed the tools and skills to significantly raise the success rate of innovative collaborations. TNW facilitators help corporates and startups understand each other, while assuring all the difficult questions are brought to the table.

How we do it:

Our team is trained in the facilitation of workshops. We know when to zoom in and out, when to take a break, when to put in an energiser and when to ask the most difficult questions. TNW's approach helps flag hurdles early on, remove obstacles and maximises synergy between teams. The key outcome of this workshop is to align expectations, create a clear roadmap and ways of working between all stakeholders.

81% hit rate

Over the last year, 81% of the pilots that we've setup have been successfully brought to an end within time and budget. This is a result we are very proud of as this number is unheard of in the area of innovation.



Step 5: Collaboration support

After shaping the pilot collaboration between the various blockchain teams, we kick-off the collaboration support. TNW plays a liaison role throughout the pilot by regularly checking in on progress and chasing the pre-defined milestones.

TNW facilitates a bi-weekly check-in meeting in the roadmap in which the pilot plan will be discussed. If needed, alterations are made to make sure both sides in the partnerships remain closely aligned. We make sure business owners on both sides meet their deadlines and therefore assure they remain on the road to value contribution.

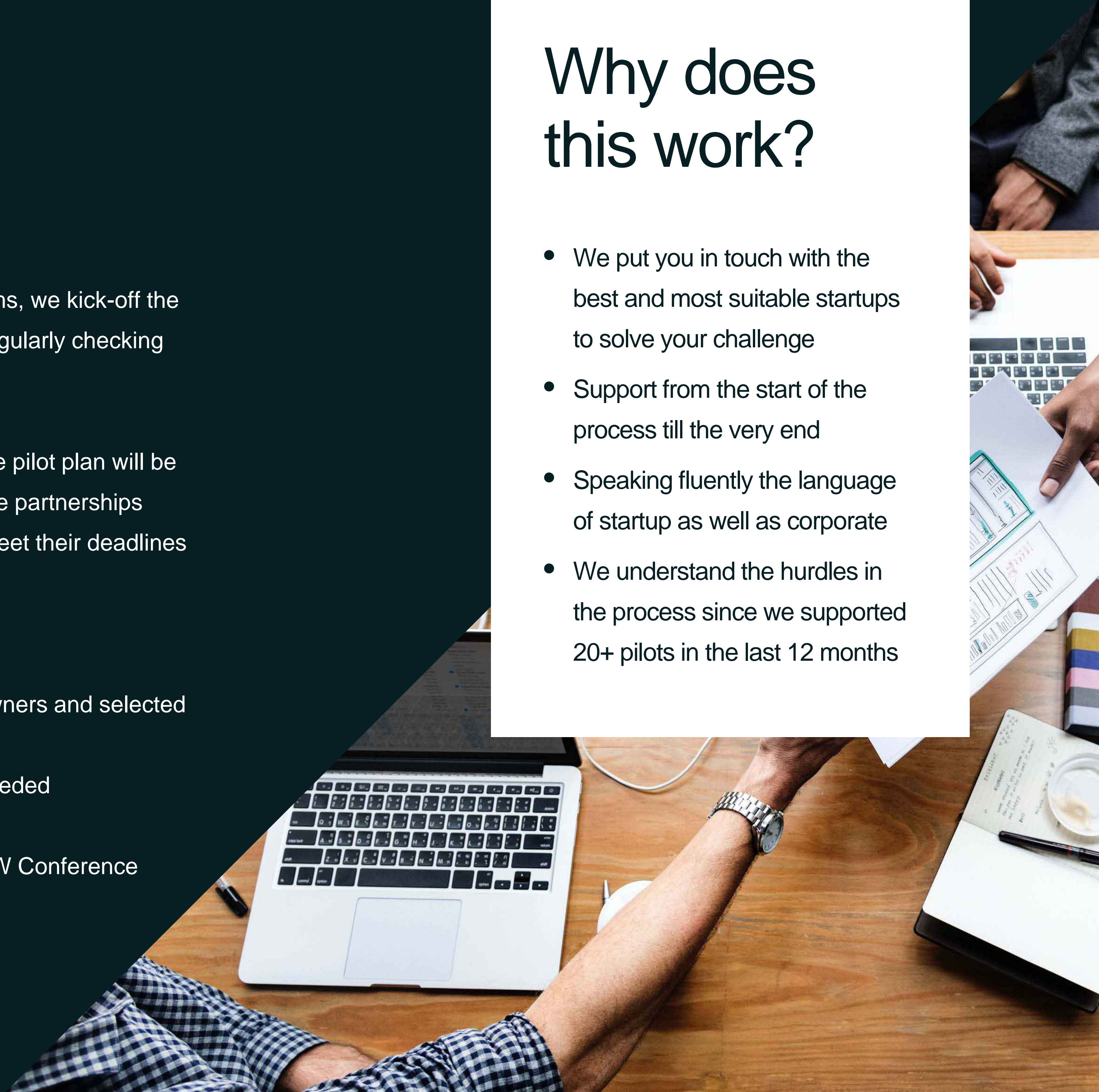
During the collaboration support you can expect:

- Creating and maintaining a roadmap that is aligned with business owners and selected startups
- Tracking key milestones in the roadmap and adjusting roadmap if needed
- Bi-weekly check-in meeting with both sides of the partnership
- Support in the preparation of the final event pitch taking place at TNW Conference

2020

Why does this work?

- We put you in touch with the best and most suitable startups to solve your challenge
- Support from the start of the process till the very end
- Speaking fluently the language of startup as well as corporate
- We understand the hurdles in the process since we supported 20+ pilots in the last 12 months



Step 6: TNW Conference 2020

TNW Conference is designed to give startups a unique opportunity to showcase their business to 17.500 decision makers, executives and investors from the tech community. This is the ideal moment to expose the successes of the Blockchain Innovation Challenge and give visibility to the pilot projects on stage.

We want to provide partners in the Blockchain Innovation Challenge the opportunity to showcase the program and pilot projects in the European tech ecosystem during TNW Conference 2020; Europe's leading tech event.

What can you expect?

- Visibility for the Blockchain Innovation Challenge, pilot projects and the partners
- Final presentation of the pilot projects
- Connect to the international tech ecosystem
- Mix and mingle with investors, startups, scale-ups, corporates, key policy makers from all over the world
- Get inspired by 300+ speakers
- *Add-on:* Showcase blockchain innovation solutions during two days at the business floor in the Blockchain Ecosystem Booth or House

Present the pilot projects at Europe's leading tech event

[Read More](#)



