



Knock knock. Who's there?

It's me, your bot!

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Michal Ujma, Capgemini
Christian Herrmann, Capgemini





Michal Ujma

- **Senior Software Engineer** -

- Passionate about all things AI.
- Responsible for the chatbot solution development at Capgemini's Digital unit.
- Experienced in building microservice oriented applications.



Christian Herrmann

- **Senior Enterprise Architect** -

- Focused on cloud architecture and serverless architecture.
- Part of Capgemini's Public Sector Innovation Lab.
- Developed several chatbot prototypes and showcases for the public sector in Germany.





What's on the menu?



**Kick-off your
bot journey!**
**Beginner-level
session**



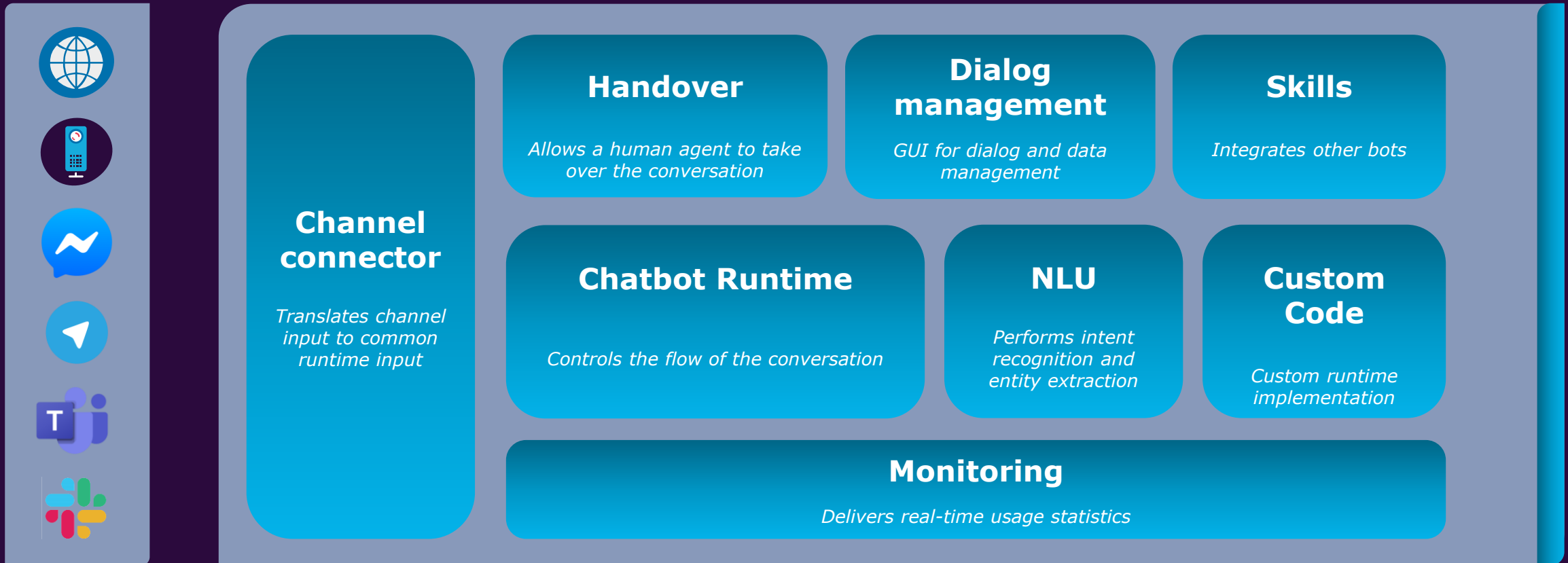
**In this session,
we want you to
get an overview
about the most
important
concepts of bot
architecture**



**We will show
you how even
non-AI
developers can
spin up their
own chatbot
within minutes**



**You will see a
success story that
demonstrates
how chatbots can
help solving a
real-world
problem**

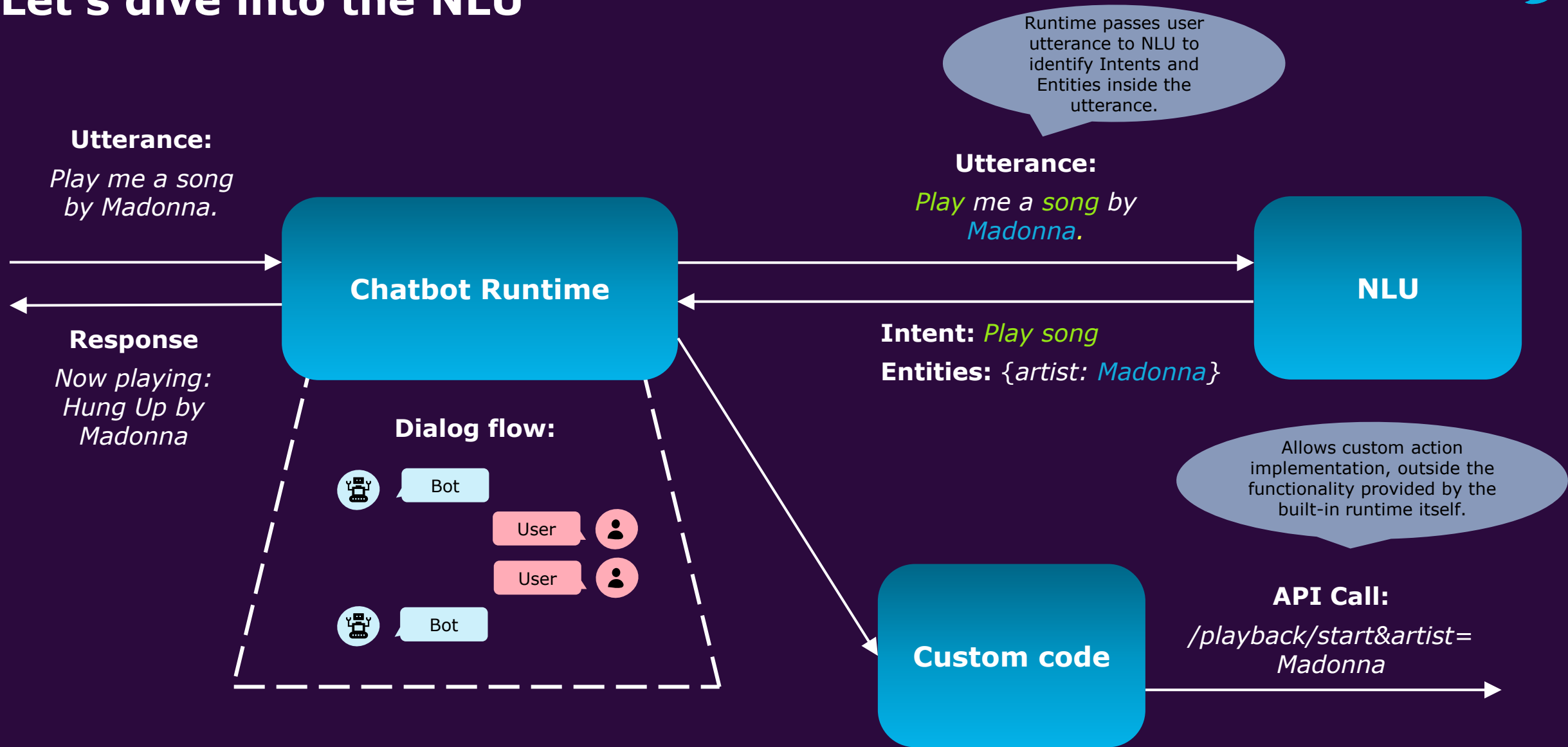


Gartner.

In 2020, organizations report a reduction of up to 70% in call, chat and/or email inquiries after implementing a chatbot or virtual customer assistant

Source: <https://www.gartner.com/en/newsroom/press-releases/2018-02-19-gartner-says-25-percent-of-customer-service-operations-will-use-virtual-customer-assistants-by-2020>

Let's dive into the NLU



Live demo: Provision your own chatbot

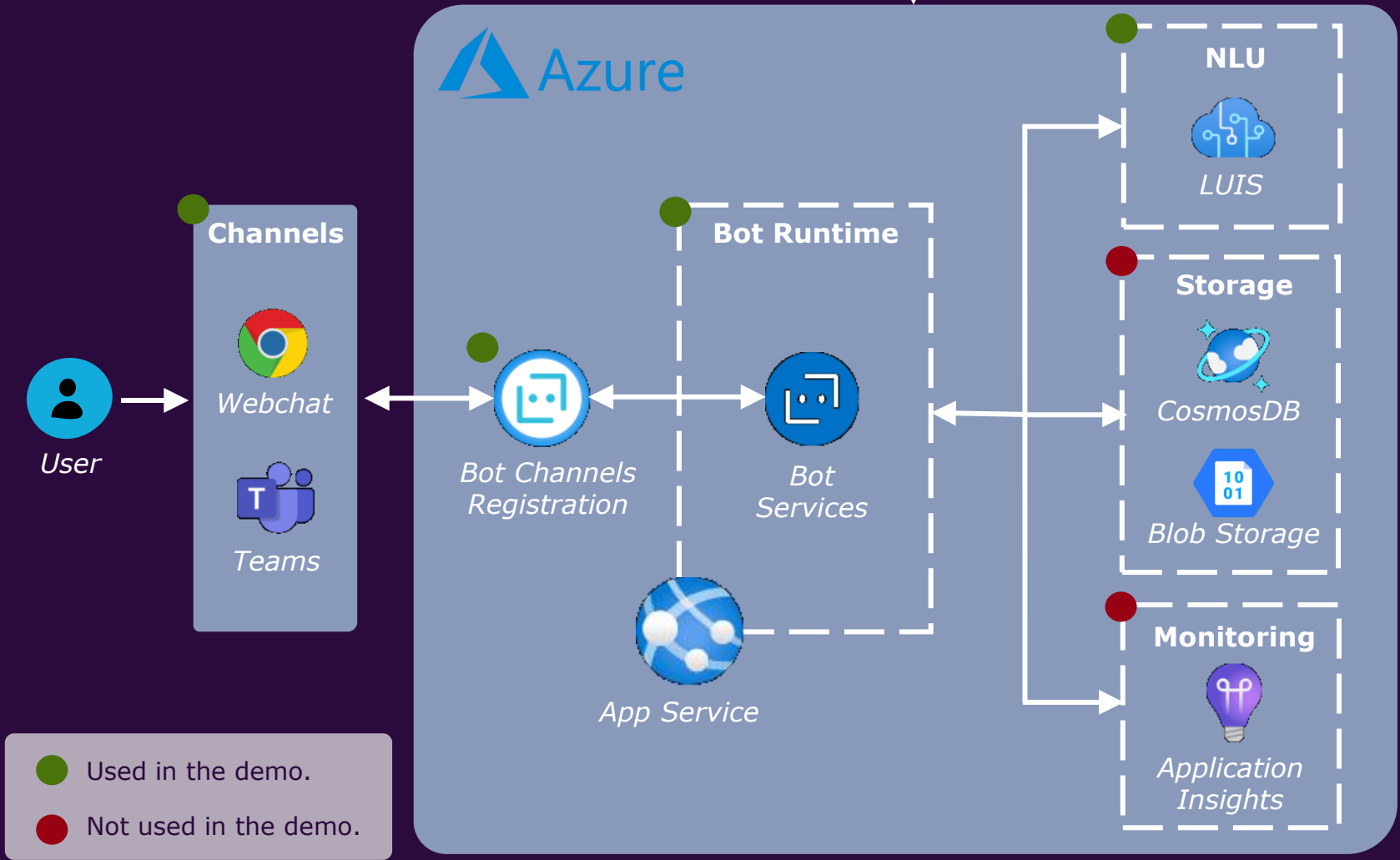


Our demo setup



<https://github.com/michaluu/oop-spotify-bot>

- We are using **Microsoft Bot Framework Composer** for development and deployment activities.
- You can try out the demo yourself. Please follow the **QR Code** to the repository.





The German youth welfare offices recognized an endangerment of the best interests of a child or young person in roughly **50,400 cases**

Source: https://www.destatis.de/EN/Press/2019/11/PE19_N010_225.html

Due to the pandemic, more than **8 in 10 children reported an increase in negative feelings. **One third** of households had a child or caregiver reporting violence in the home. Children reported that violence was **higher** when schools were closed, compared to when they were attending in person.**

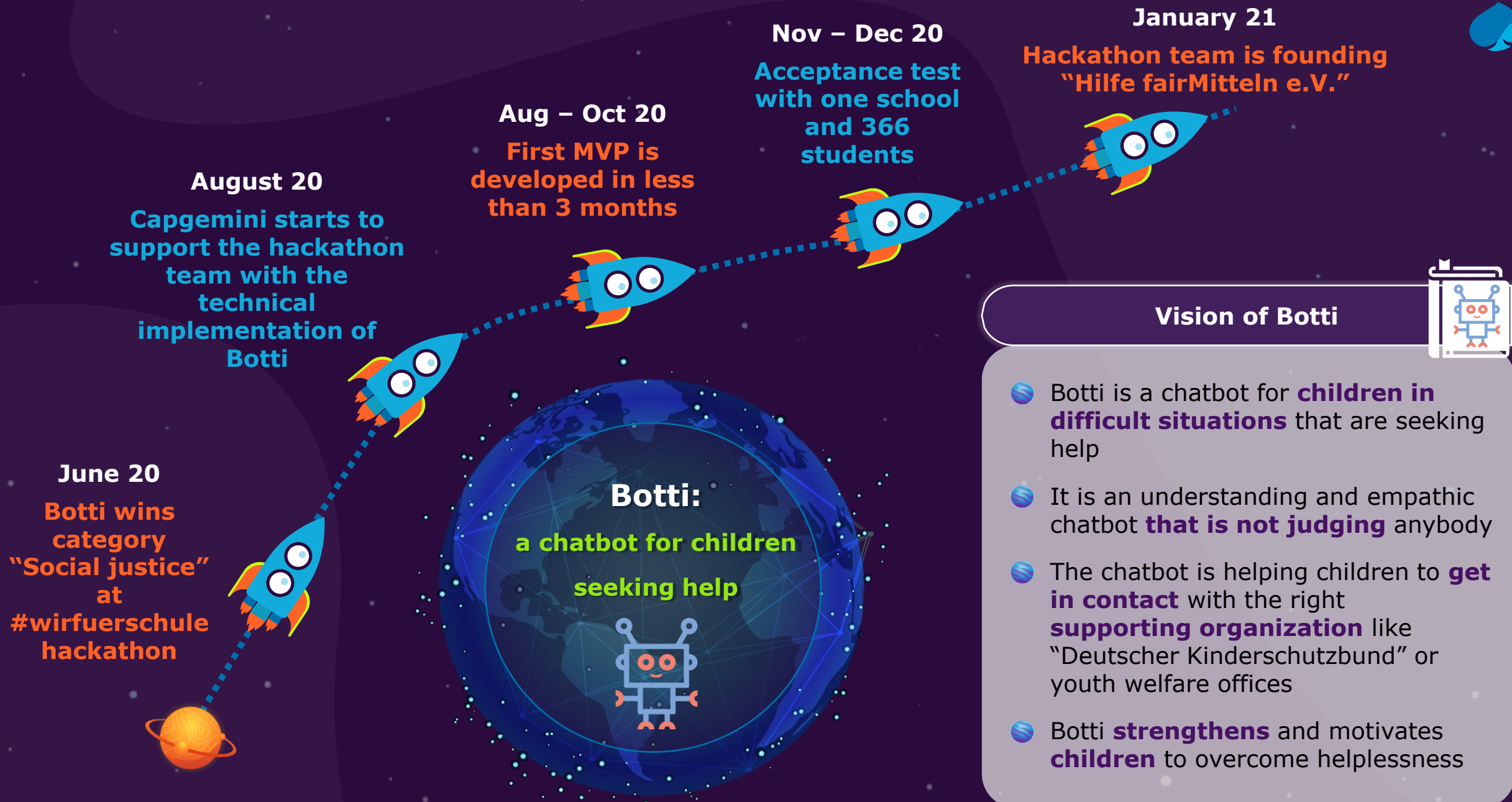
Source: <https://resourcecentre.savethechildren.net/library/hidden-impact-covid-19-children-global-research-series>

****One of six** students is affected by mobbing**

Source: <https://zeichen-gegen-mobbing.de/zahlen>

Germany just in **upper midfield regarding children's well-being in high-income countries**

Source: <https://www.unicef.de/informieren/aktuelles/presse/2020/report-kindeswohl-in-reichen-laendern-in-gefahr/224250>





Botti

MVP



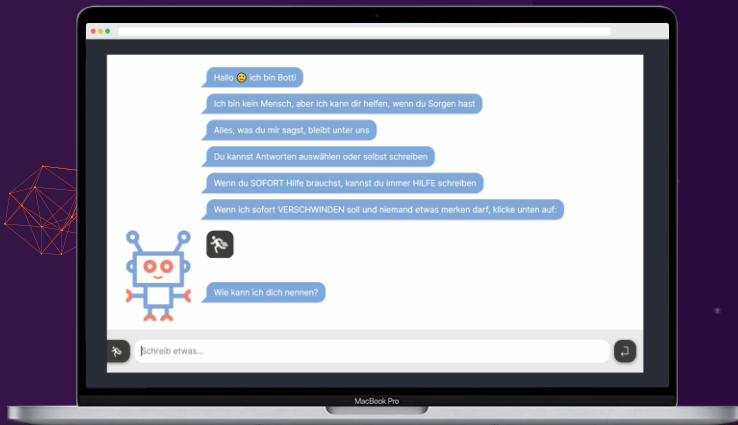
Child-friendly chat interface

Design of two personas for the use case "children's well-being" covering several problems in school and at home

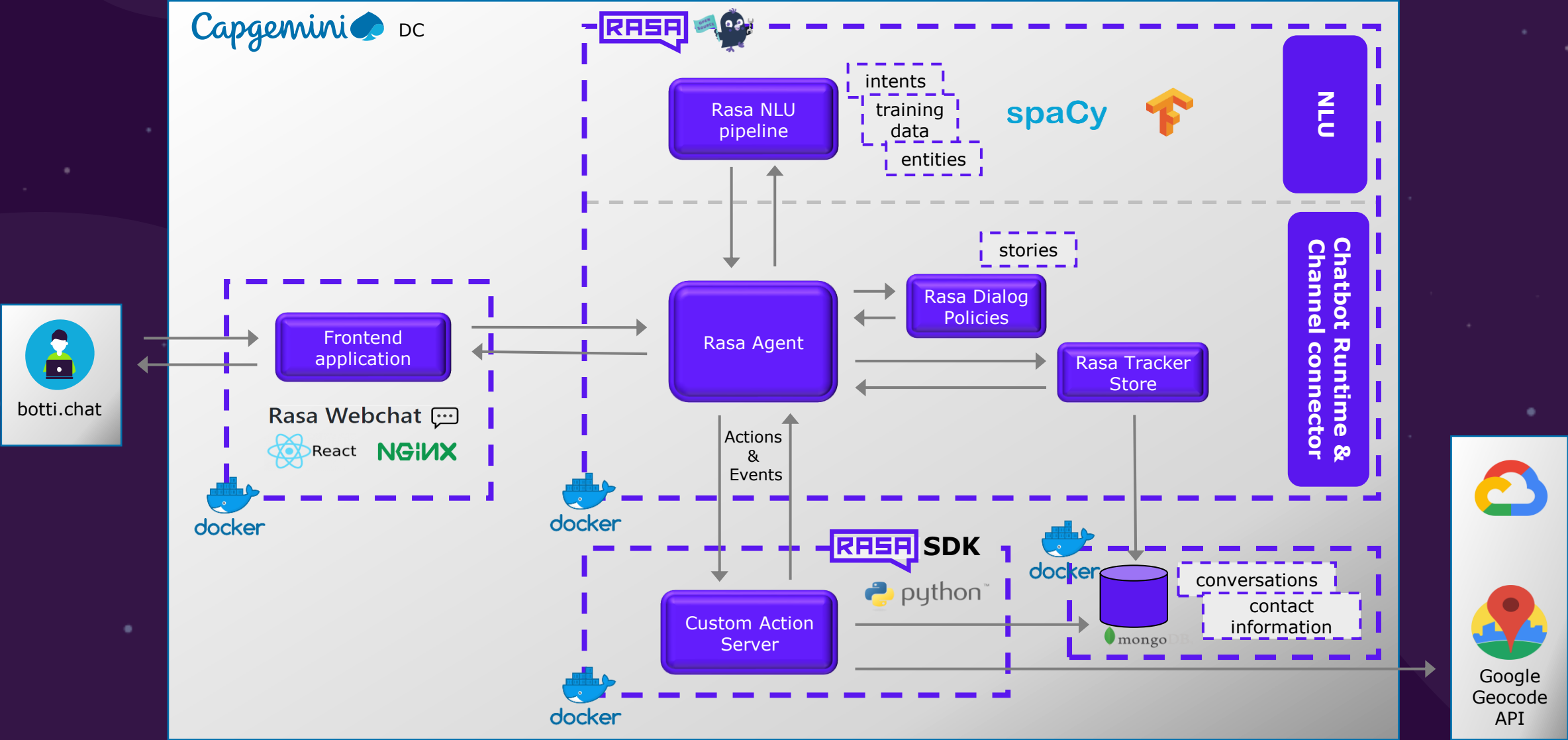
58 intents and 125 stories implemented

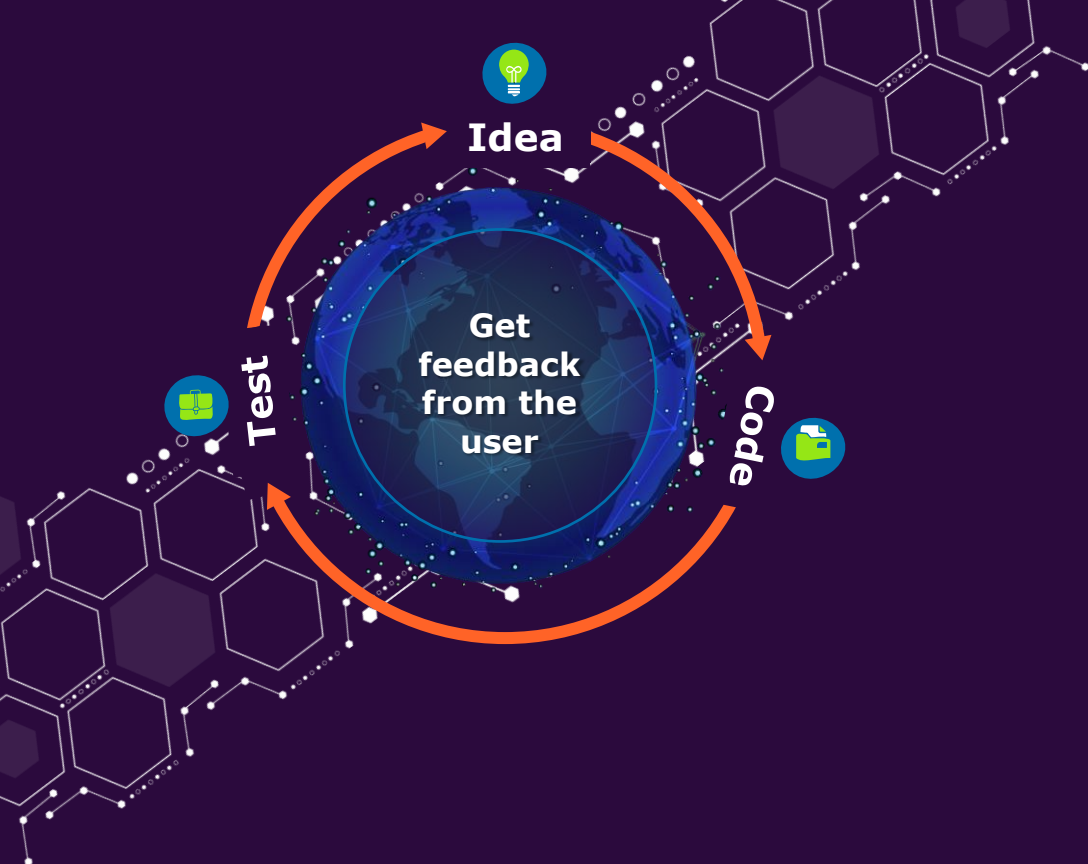
Provision of contact information of a suitable supporting organization for each problem, including regional contacts

Anonymization of chat sessions



Inside the Botti MVP





It's all about the user...



Acceptance test with **366 students** in the age group 6-18

70% of the students like the idea of Botti
76% of this group would recommend Botti
79% of the girls and **61%** of the boys would use Botti

Spelling mistakes are a big challenge, especially in the younger age group

Some answers of the bot are not suitable and Botti appears cold-hearted sometimes

Users want more information for their problem then just a single set of contact data



Hilfe fairMitteln e.V.



<https://bit.ly/39RG91i>



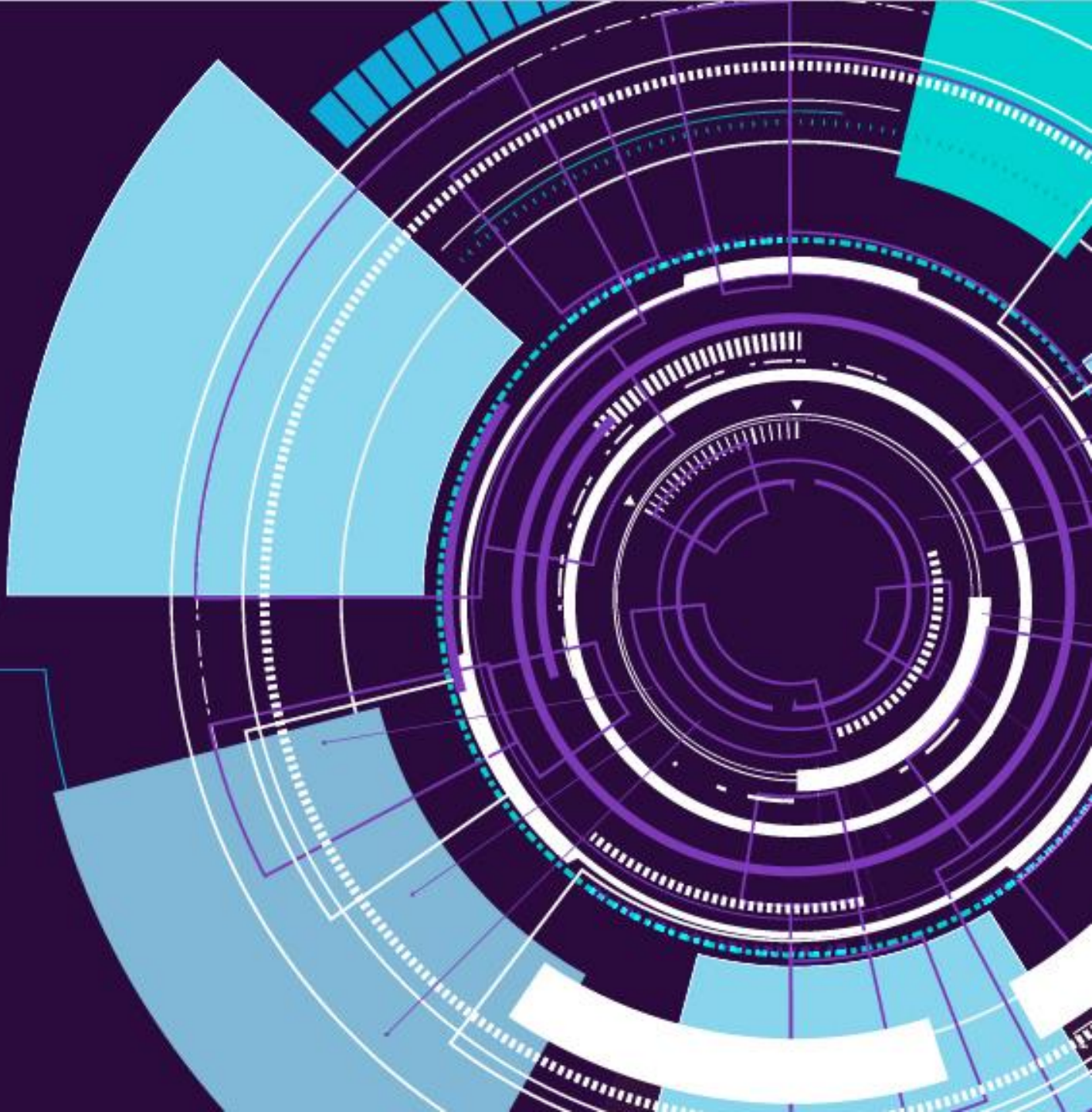
info@hilfefairmitteln.de





Architecting **Our Future**

Let's get in contact and visit us now at
our virtual [booth/258](#)
here on the OOP!





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11.02.2021 von 18:00 bis 20:00 Uhr

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Abendprogramm **am 11.02.2021 von 18:00 Uhr bis 20:00
Uhr** dabei.

Es erwartet dich unter anderem eine Keynote „*Coding at Capgemini – Revolution or Evolution for Clients*“ von unserem
Head of Innovation Thilo Hermann.

Erhalte spannende Einblicke und Beispiele, wie Capgemini
seine Kunden revolutionär aber auch evolutionär mit Software
unterstützt.

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events.de/abendveranstaltung_mit_capgemini/](https://capgemini-events.de/abendveranstaltung_mit_capgemini/) an.

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