



5G USE CASES

Perfect Match - Projektideen suchen potenzielle Partner 21.01.2020

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LIFE IS FOR SHARING.

HUBRAUM PROTOTYPING: WE MAKE 5G AND EDGE TANGIBLE



CO-CREATING WITH STARTUP & DEVELOPER COMMUNITY

PROTOTYPING IN LIVE 5G/EDGE INFRASTRUCTURE

AR/VR - ENTERTAINMENT - ROBOTICS - GAMING

hub:raum
the incubator of T-Mobile
5G
PROTOTYPING

Logos: DIMENCO, UNMANNED Life, RIDE ON, 1000 realities, ABSOLUTE ZERO, HoCoight, QuarkVR, Sense Glove, VISUALIX, Innoactive, FUERO GAMES, immersiv.io, VREE, EKO AUTOMATION, 2sens

350

Startups were scouted

60

Potential partners (direct)

18

Prototypes with partners developed

5G DOME TRIAL: IMMERSIVE EXPERIENCE IN THE STADIUM

AR STADIUM NAVIGATION

- AR based out- and indoor navigation
- Provisioning of event and

information

AR TACTICAL ANALYTICS

- Live Statistics and position of players during the game
- Displayed as AR overlay on camera picture of the phone

KINEXON

immersiv.io

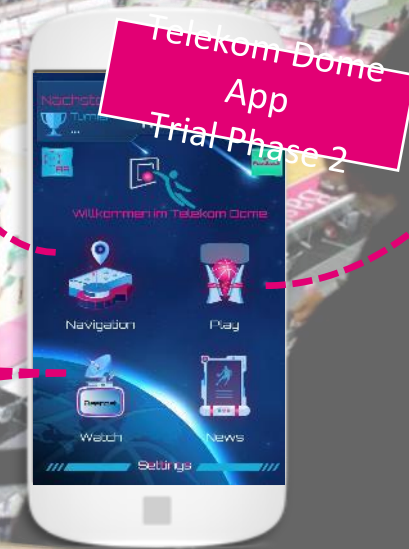
BETTER VIEW

- Provides different camera views of the game on second screen incl. 360° perspective
- Display of statistics over camera feed

SMART MOBILE LABS



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ARENA CHALLENGES

- AR based virtual challenges and games around the arena and the sports event
- Potential enhancement with AR Holograms of the players



VIP ENTERTAINMENT

- Provisioning of glasses for VIP lounges to provide AR/VR experiences, e.g. Arena Challenges with Holograms or Microstadium View



immersiv.io

06.09.2018

3

AR TACTICAL ANALYTICS IN REAL TIME

KINEXON



Smartphone

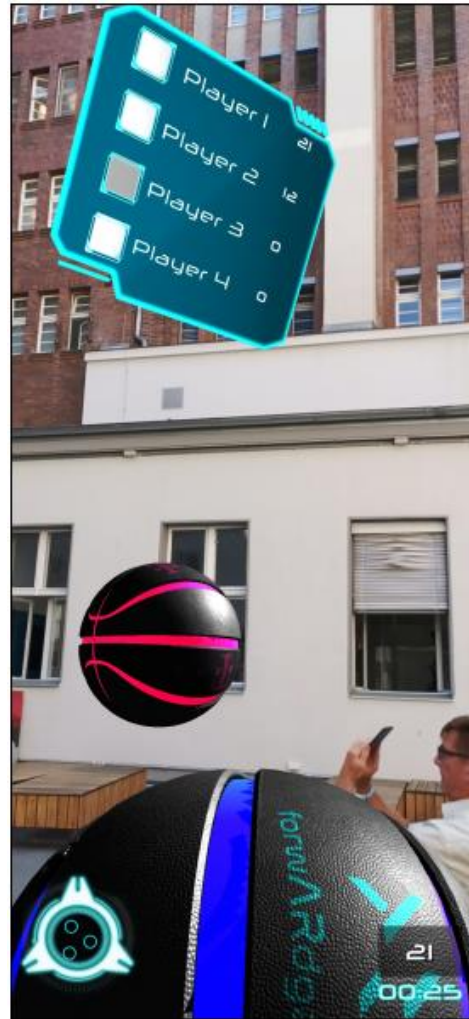


AR glasses



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DEVELOPMENT OF BASKETBALL APP



Phase 1 (Dome May 2019)

Single player mode. Good LTE performance to have real time player experience

Phase 2 (IFA Sep 2019)

Up to four player compete in an AR game. The balls from other players can kick each other.

Very low latency, which is needed for synchronization of different players in real time

Phase 3 Future Development of Multiplayer Option based on 5G capabilities where available

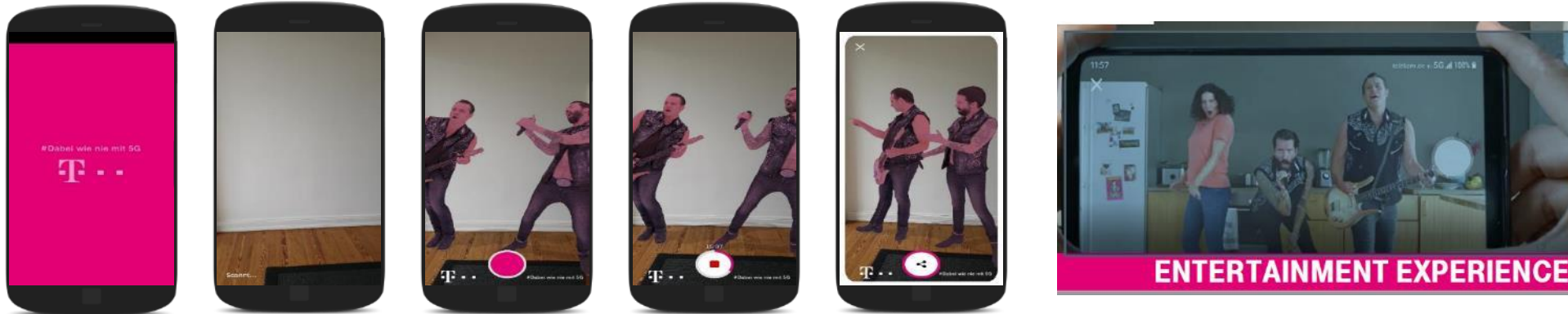


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AR APPLICATIONS

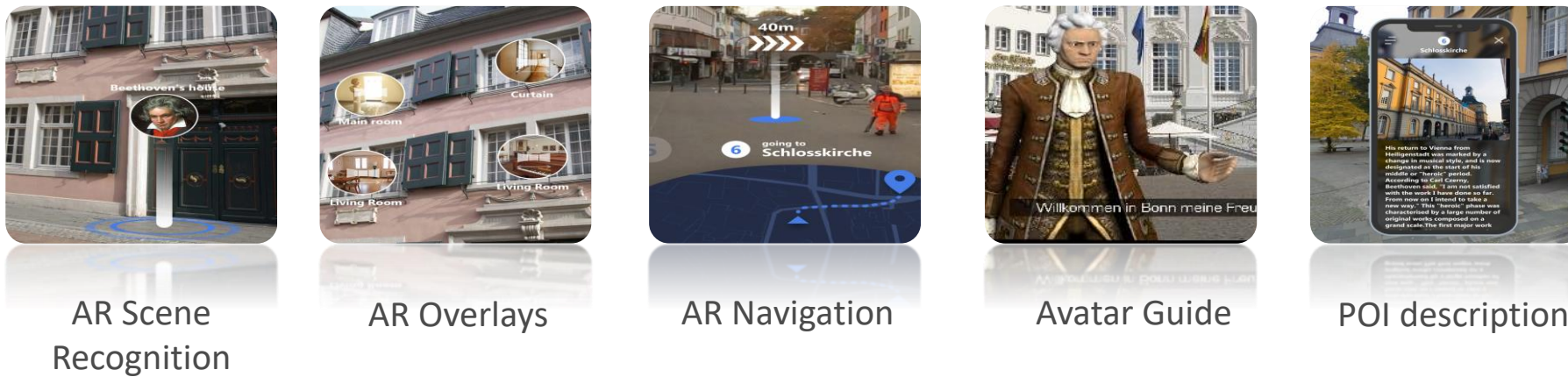


AR 3D volumetric content



IFA Showcase App
➔
Real time 3D
volumetric content

AR City Guides with avatar



Beethoven App
Bonn
➔
AI avatars that
recognize speech,
tone and mood

5G UPLINK TEST FOR TV BROADCAST AT BERLIN MARATHON



5G Smartphones were used as modems on the professional cameras. They transported the camera images via Deutsche Telekom's 5G network to the control room.

NRW CO-CREATION PROGRAMM 2020

O P E N U P

...for new ideas

...for outside views

...for Co Innovation

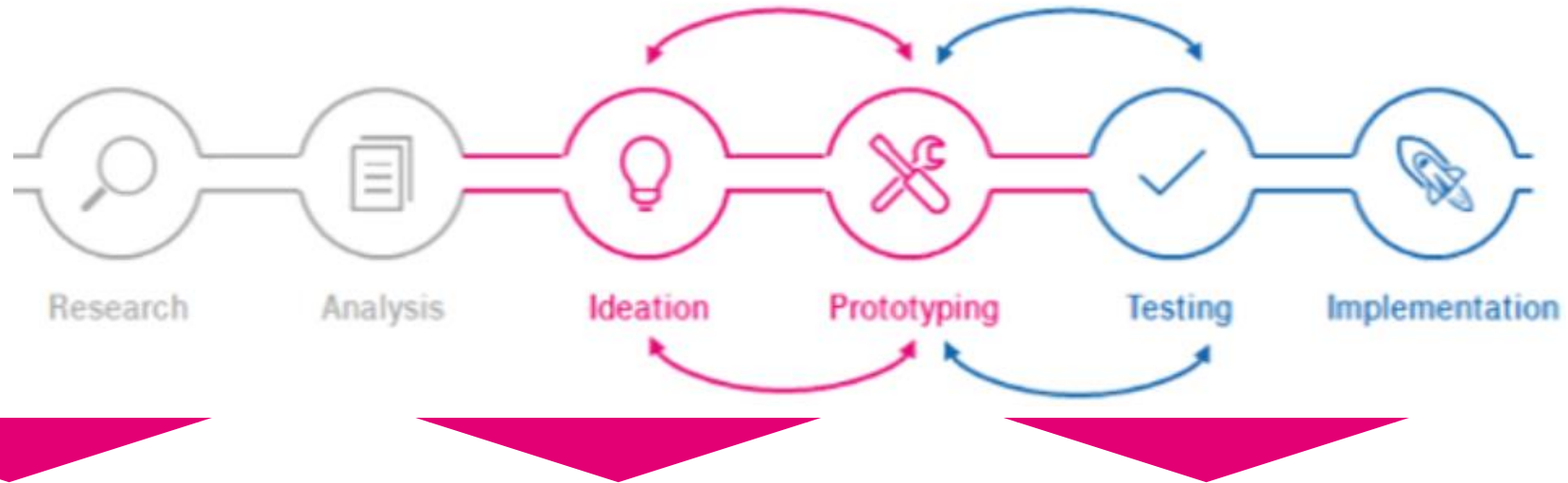
C O C R E A T E

...for real use cases

...to empower NRW ecosystem

...to join forces

HOW TELEKOM CAN SUPPORT YOU



Support during Ideation

- Co-Creation Workshops
- Challenges
- Hackathons

Support during Setup

- Validation Sprints
- Business Model Sessions

Offers for Teams

- Co Working spaces
- Curriculum
- Mentoring
- Coaching

Offers for Developers

- Access to Infrastructure
- Expert sessions

TELEKOM
CO-CREATION

THANK YOU

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