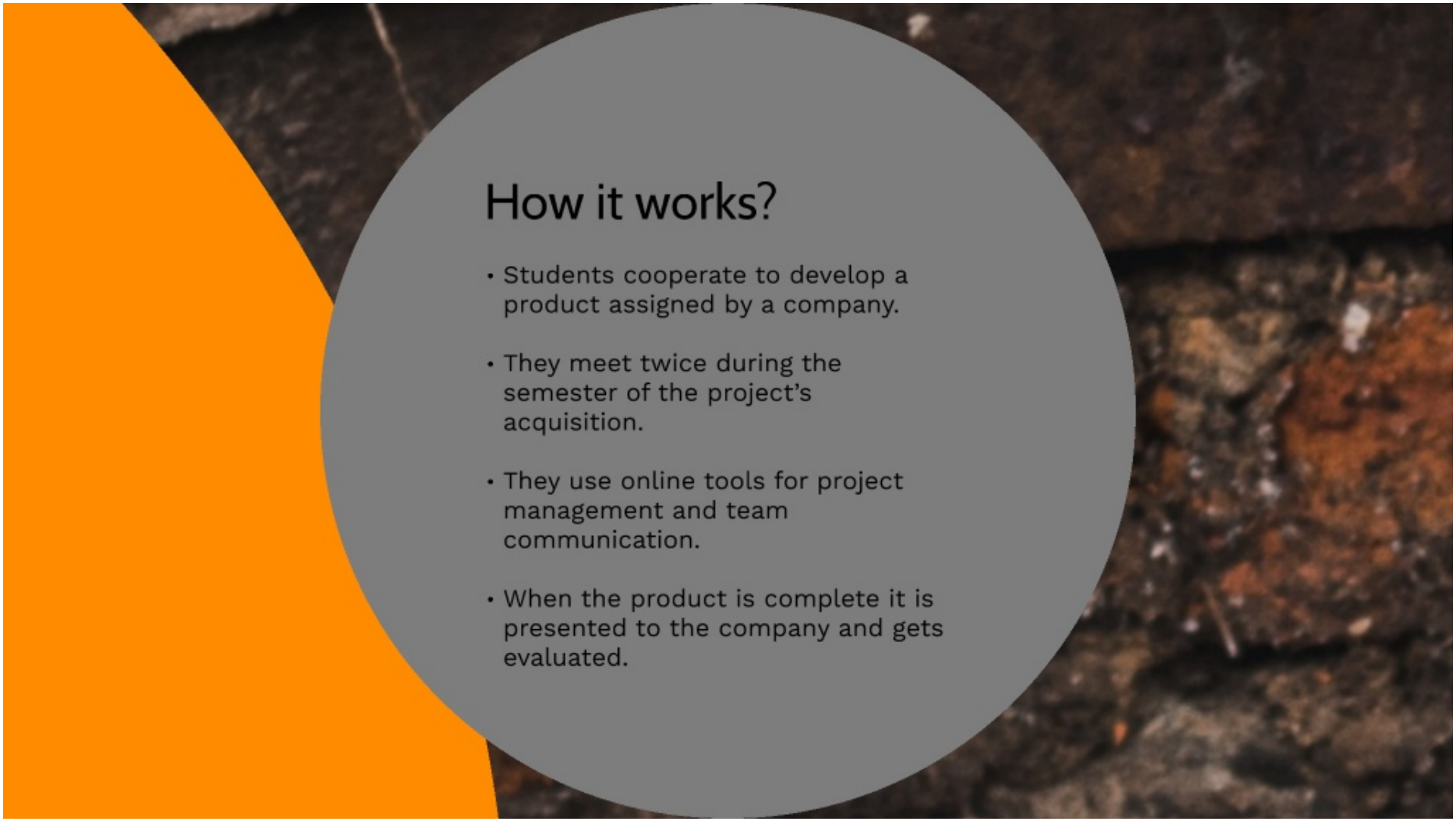
Blended AIM 2019
Sewermapper
Papadourakis Georgios, Sygkelakis Michail
BLENDED AIM
SCRUM
SEWERMAPPER
CONCLUSION
QA
Department of Informatics Engineering Hellenic Mediterranean University of Crete

Blended AIM-What it is ?
• Blended Mobility is an international collaboration between 11 universities.
• The students are challenged by a company with a real-life problem.
• Different fields of study are involved such as: Business Development, Management, IT & Design.
How it works?
Where it helps?


How it works?
• Students cooperate to develop a product assigned by a company.
• They meet twice during the semester of the project's acquisition.
• They use online tools for project management and team communication.
• When the product is complete it is presented to the company and gets evaluated.

Addressing Problems
• Professional career depends on mobility.
• Optimization of communication skills at an international, cross-cultural environment
• Exposure of students in international programs.
• Empower of students employability.

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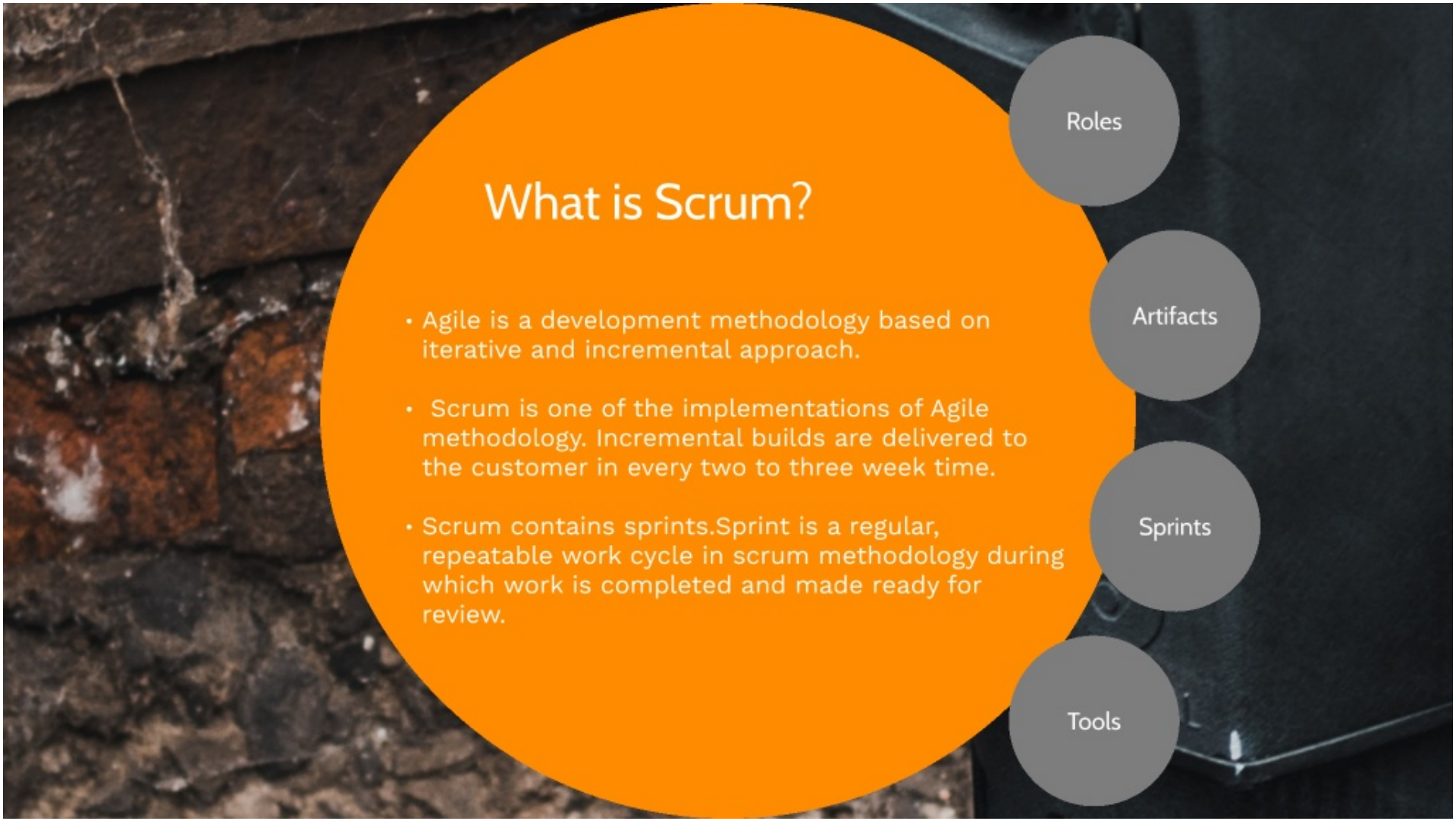
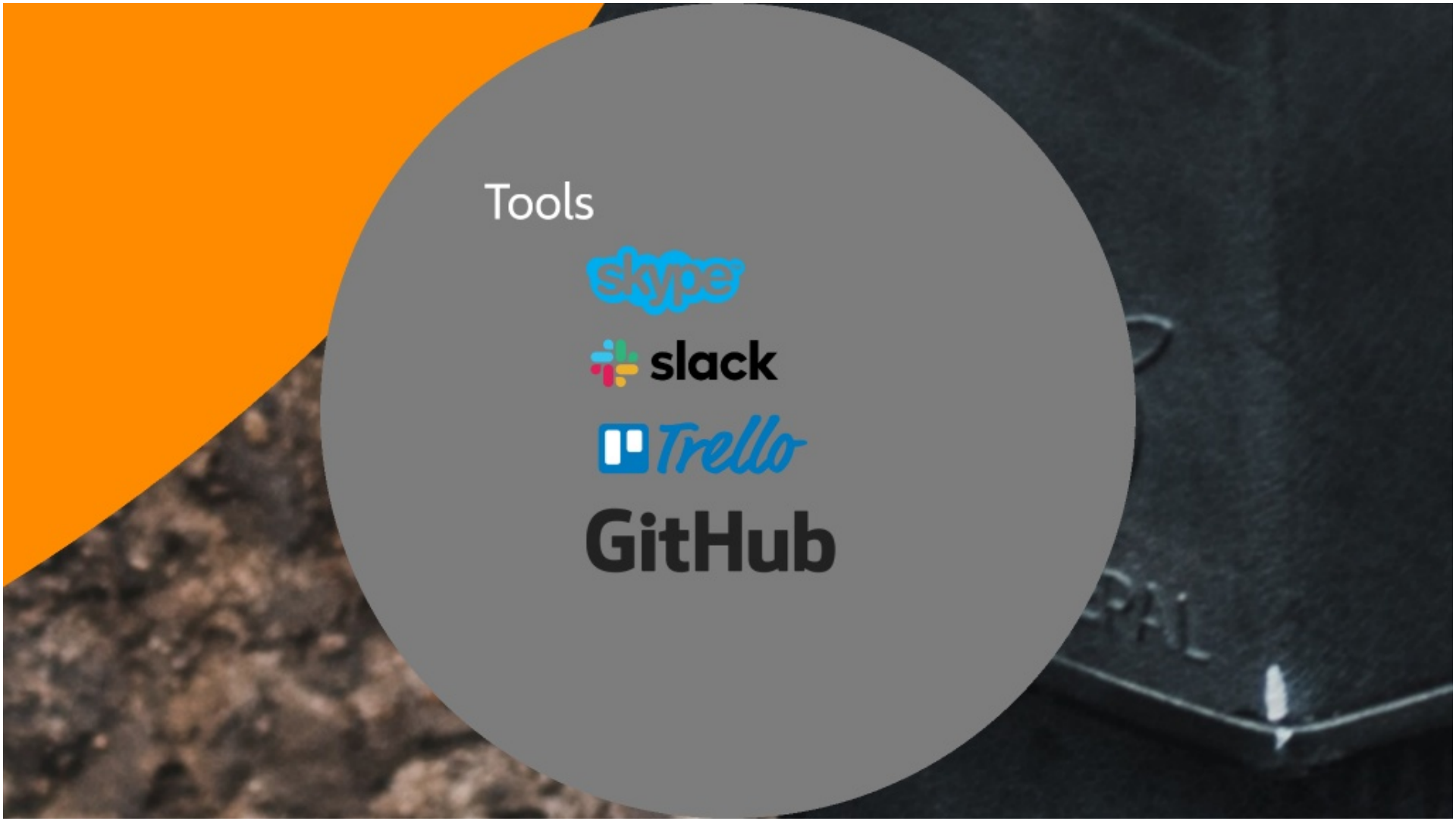

What is Scrum?
• Agile is a development methodology based on iterative and incremental approach.
• Scrum is one of the implementations of Agile methodology. Incremental builds are delivered to the customer in every two to three week time.
• Scrum contains sprints.Sprint is a regular, repeatable work cycle in scrum methodology during which work is completed and made ready for review.
Roles
Artifacts
Sprints
Tools

Roles
• Product Owner
• Scum Master(Team coordinator)
• Scrum team(Everyone in team)

Artifacts
• Product Backlog(Created and maintained by product owner)
• Spring backlog
• Created and maintained by the team.
• Update daily by the team.

Sprints(From what it is consisted?)
• Sprint Planning meeting
• Every 2 weeks
• 7 Sprints totally
• Daily standup meetings
• What have you done since last meeting?
• What will you do before the meeting?
• What is blocking you?
• Demo at the end of each sprint
• Sprint retrospective meeting


Tools
skype
slack
Trello
GitHub

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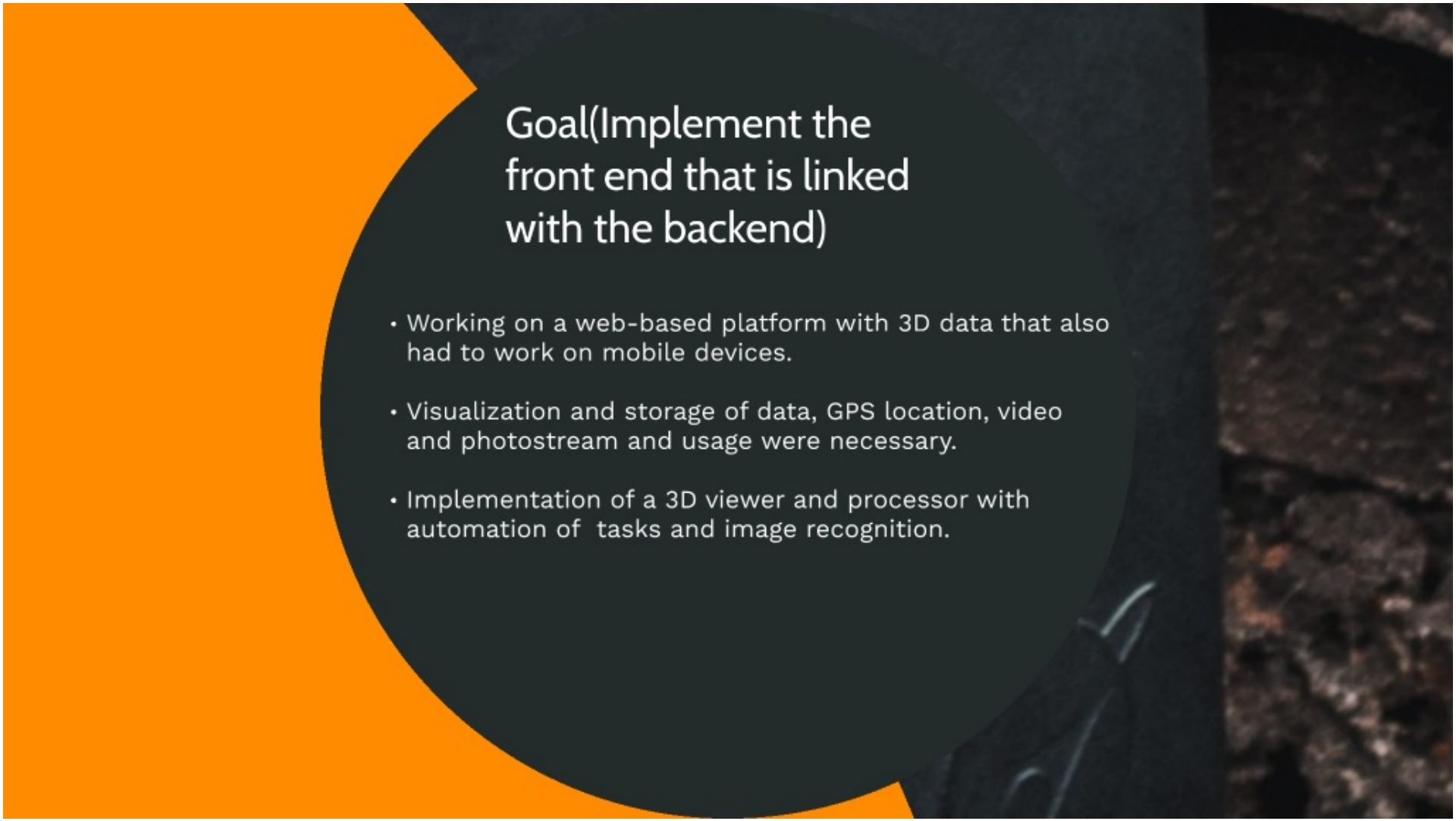
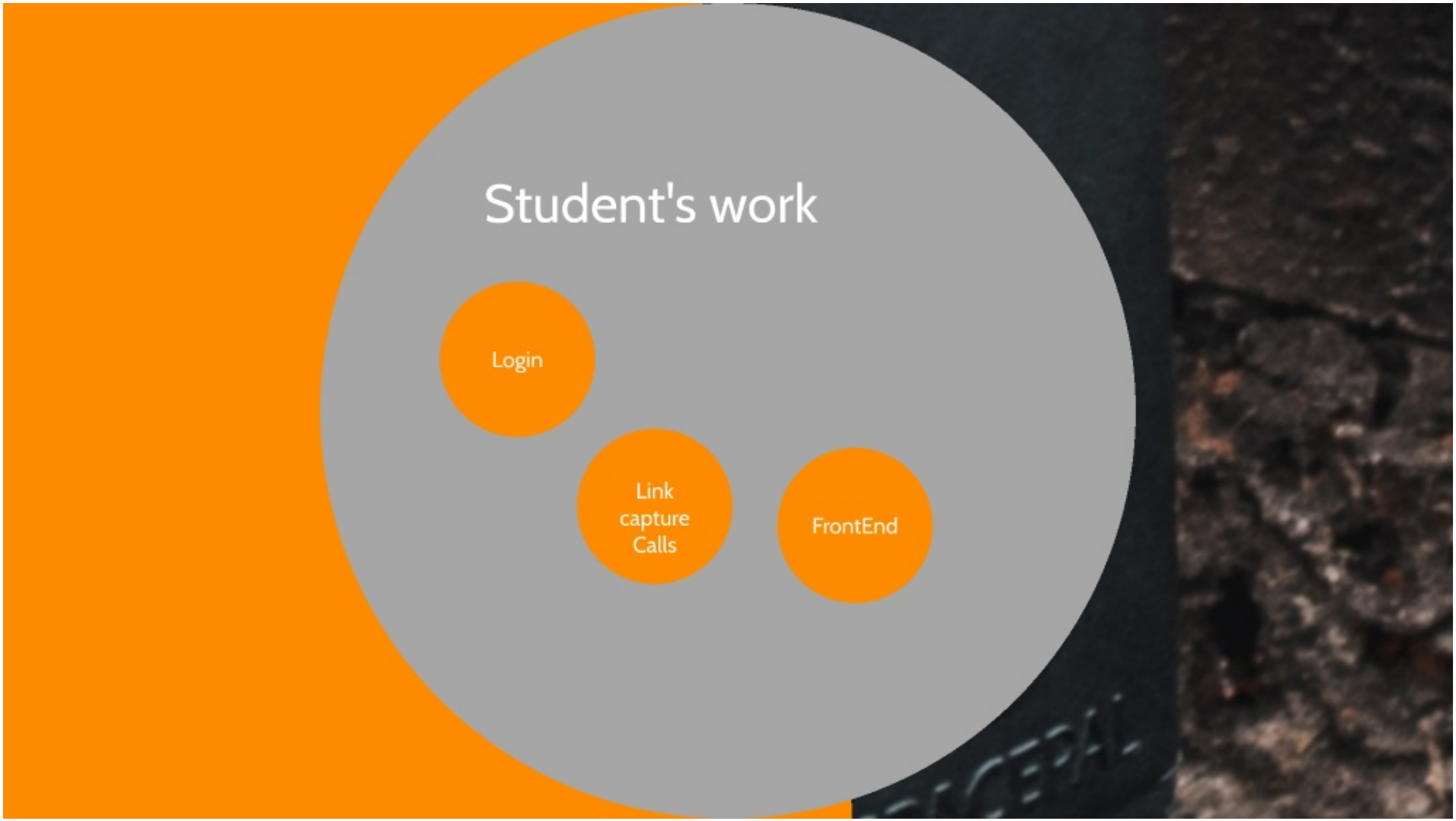
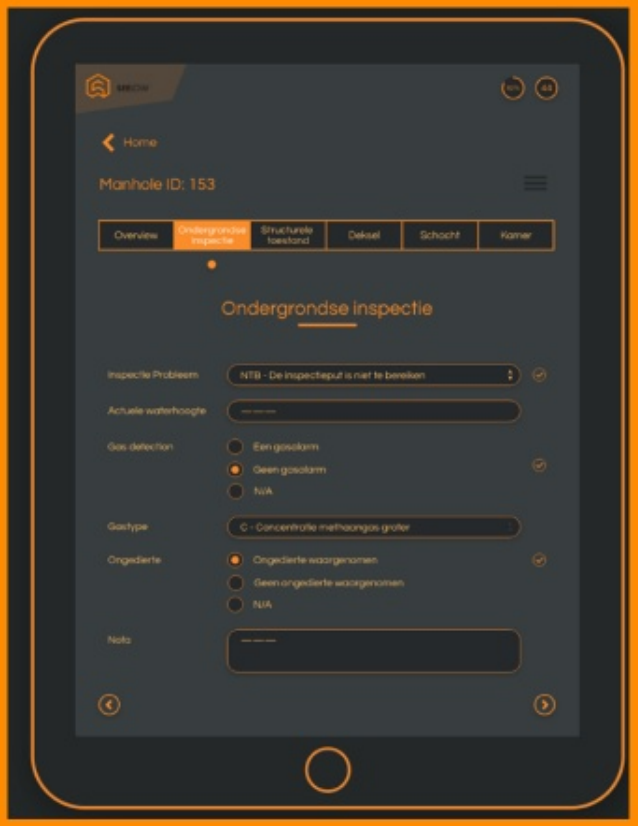
SewerMapper
A device that lowers automatically into sewer manholes, and locates, orientates, measures and inspects the manhole by the push of a button; no more workers going ‘down the drain’: only open the cover!
Benefits
Goal
Student’s work
Used Technologies
Design
Marketing

BENEFITS
• No need for a worker to go down the manhole anymore. This means dangers of falling, drowning and suffocation are almost nonexistent.
• The SewerMapper can scan, parametrize and map a complete manhole and sewer up to 3 times faster than a manual inventory. Results are also more accurate and complete.
• Using ESA's expertise and satellites, the SewerMapper can precisely determine the location and orientation of a sewer. Every manhole can thus be linked to an entire 3D sewer network!
• No more manual measurements and computer inputs! The SewerMapper is an exhaustive tool that only has to be placed above a manhole; measurements, parametrization & upload are easy-as-pie.


Goal(Implement the front end that is linked with the backend)
• Working on a web-based platform with 3D data that also had to work on mobile devices.
• Visualization and storage of data, GPS location, video and photostream and usage were necessary.
• Implementation of a 3D viewer and processor with automation of tasks and image recognition.


Student's work
Login
Link capture Calls
FrontEnd

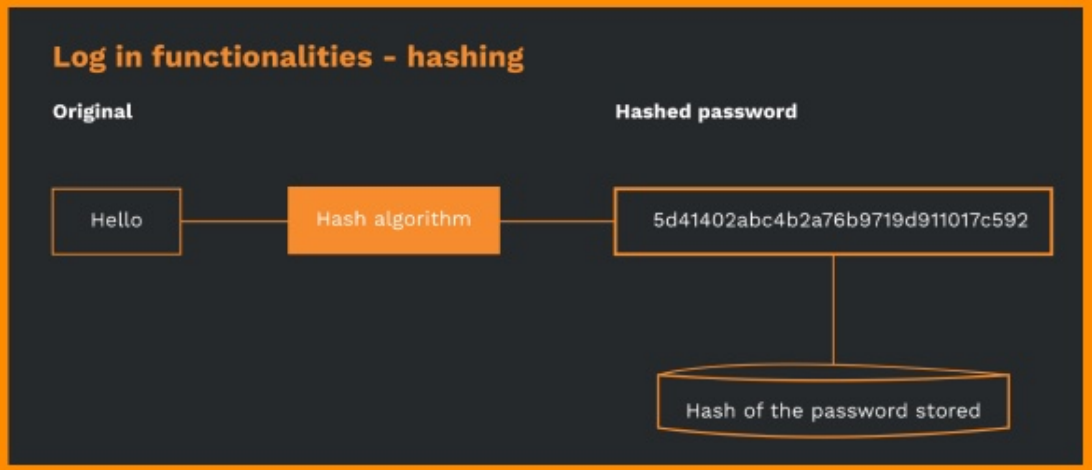
Front-end (Some examples)



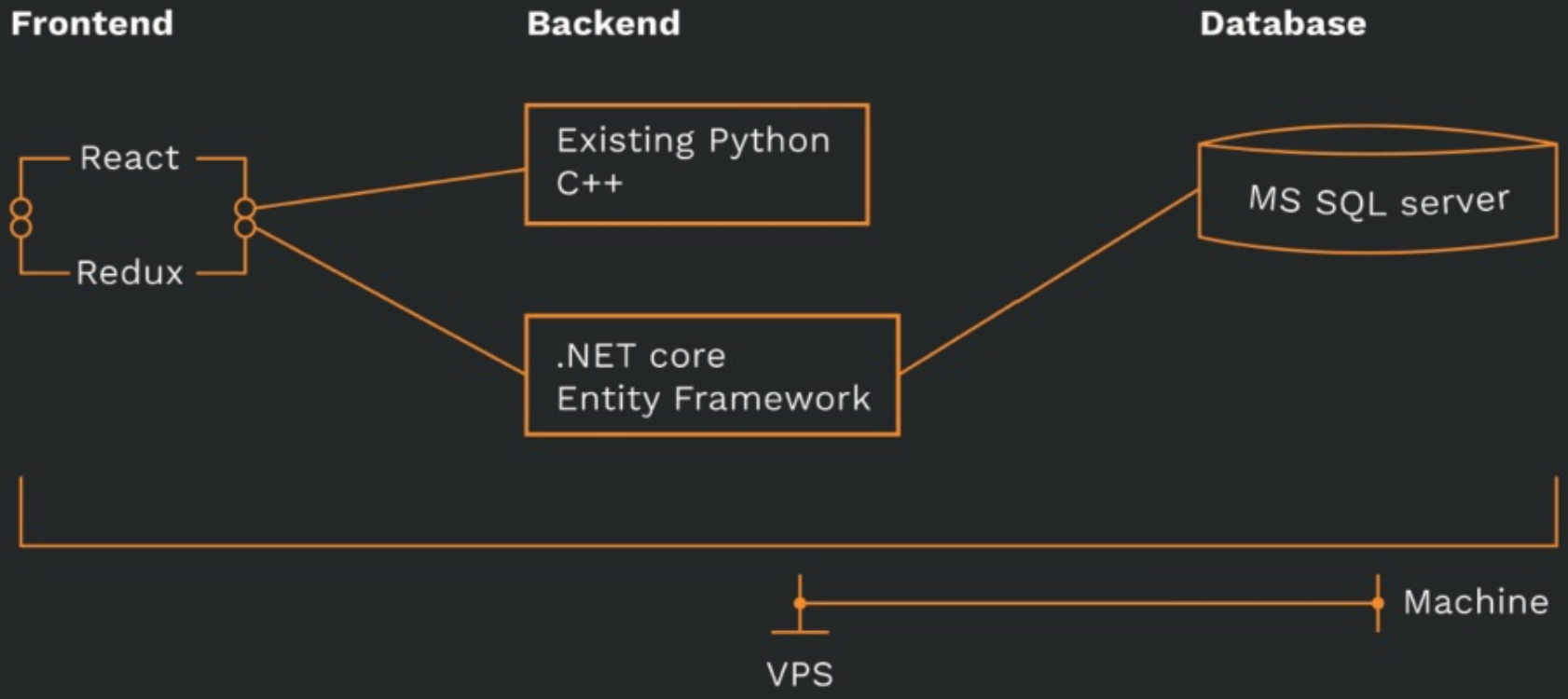
Link Capture calls

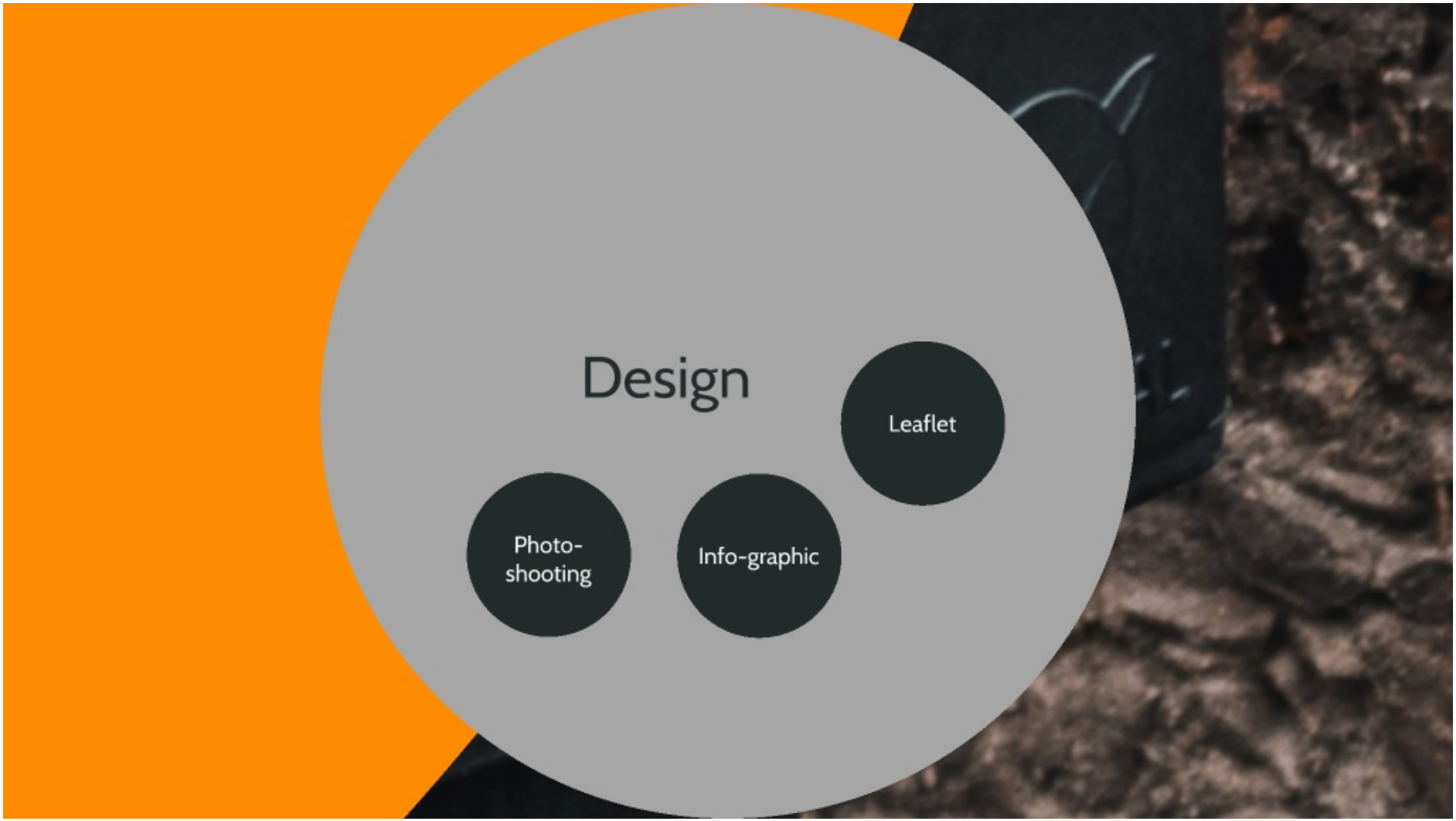
- process call
- capture_stop call
- capture_depth_list
- capture_start

Log in-functionalities



Used technologies




Design
Leaflet
Photo-
shooting
Info-graphic

Leaflet

SEWERMAPPER
Introducing
SEWERMAPPER
The product, how it works, and its benefits.

Disclaimer
©2019 SpacePal EU. All rights reserved.
Warning: The product is often used close to traffic and we recommend you to be cautious of the surrounding circumstances.
Disclaimer: The product is currently in development and is considered an MVP - Minimum Value Product.
Interested? We are always looking for investors or companies interested in our product. Contact details are on the back of this flyer if you are interested.
We look forward to hearing from you.
The product
The combination allows you to work fast and smoothly, and save important information that is easy to retrieve.
1 The computer is based on the top of the tripod. The scanner can be turned on/off with the switch. The scanner can also be run manually with the up/down-buttons.
2
3 The scanner is clipped in the middle of the tripod and is easily attached when the tripod has been set up.
1
2

Work flow - onsite
1 Click power on to start the scanner
2 Open manhole
3 GPS data is collected
4 Set up the tripod aligned north
5 Attach scanner
6
7 Start capture
8 Start motion Automatically or manually
9 Stop capture
10
3
4

What we do
What
How
Why

Work flow - at the office
Sync online
Power on
Scanner connected to wifi
Follow syncing
No "History"-screen
"Hey power off when ready
Follow post process
No "History"-screen
Get email notice
Ready to own report/data
Check results
Go to platform
Log in via browser
e.g. company.sewermapper.eu
Follow syncing
No "History"-screen
View or Download
The web application
5
6

Info-graphic

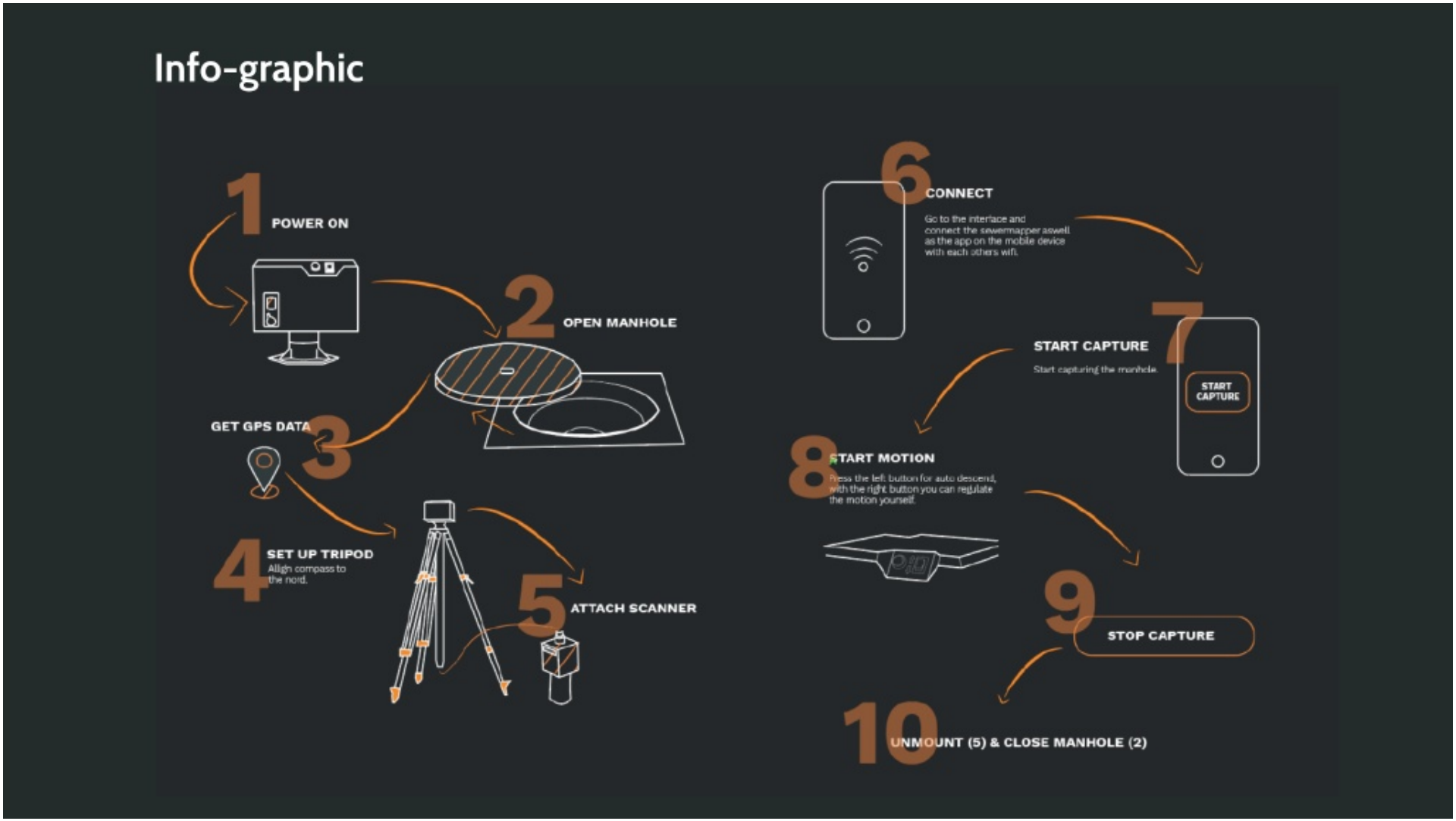
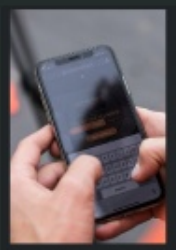


Photo-shooting



Marketing
PRICE
Device: € 10.000 -40.000
License: € 5 -15 Ppu
PLACE
Direct sale mainly
to private companies
PROMOTION
Online: website
offline: flyer
Research in
Portugal
Research in
the Middle East

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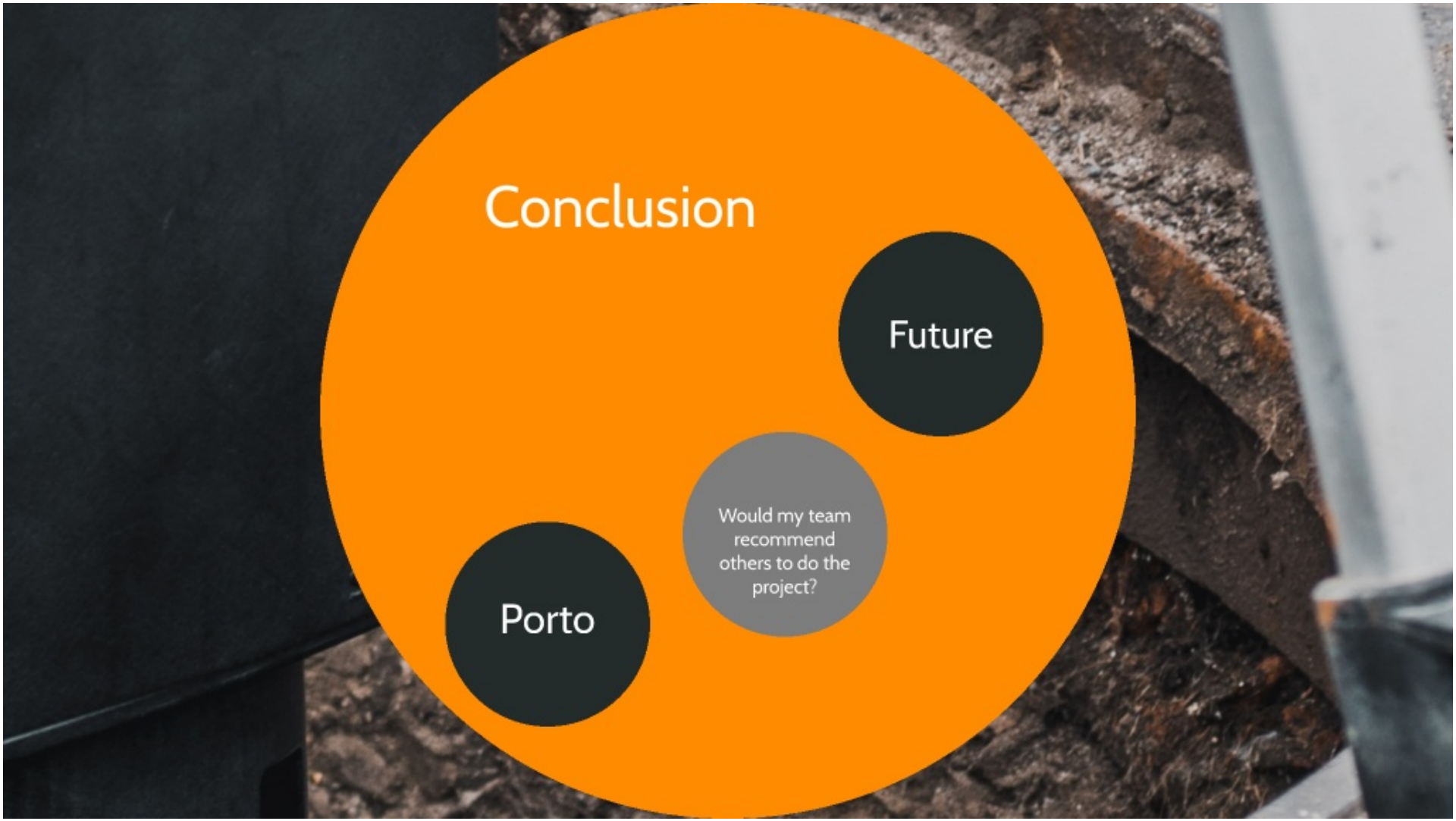
Conclusion
Future
Would my team recommend others to do the project?
Porto

Future(Nice to have)
In IT
• Online syncing
• Code commercial website
In design
• User testing
• Social media marketing
• Print

Would my team recommend others to do the project?
Positive
• Opportunity to meet people from different cultures
• Working with people from different departments
• Opportunity to work on a real life project with a lot of teamwork

Final meeting in Porto

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QUESTIONS?

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