

Co-creation of online living laboratory for water management design course

Alex Bolding & Pim van Scholl

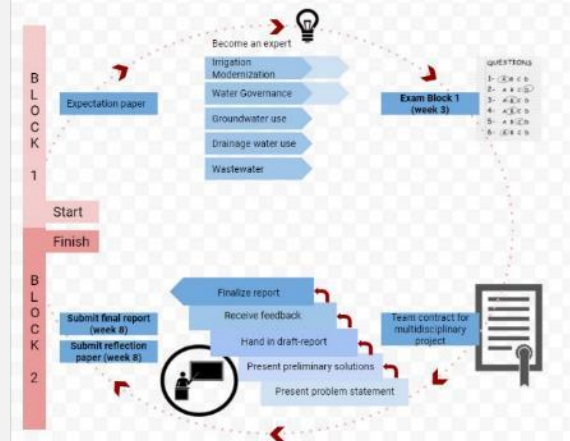


- <https://wur.yuja.com/v/jordanvalleytour>

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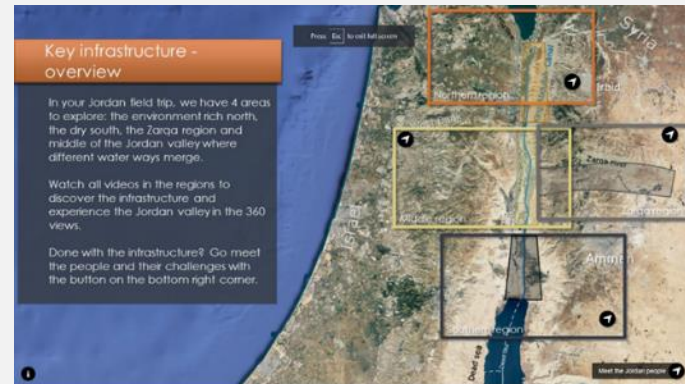
What will we share with you?

- Brief demo (interactive map)
- The didactic concept
- The process (making of)
- Some lessons learnt
- How to translate a living case into a layered, interactive map?

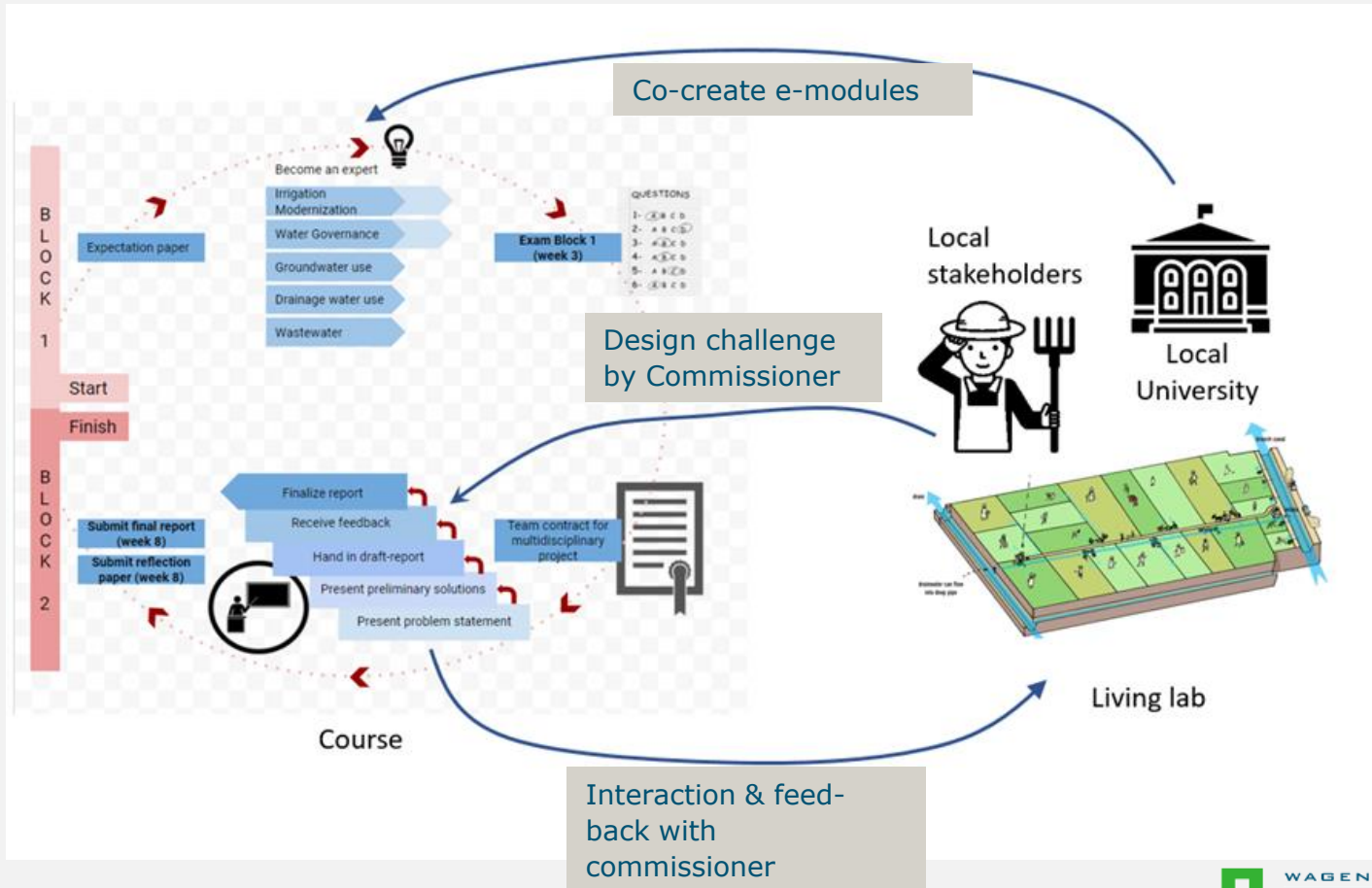


A living lab in Jordan

- Why add a living lab to the design course?
 - Real life simulation of post-graduation job market
 - Active case with problem owners (commissioners)
 - Decolonize the way we teach science (Jordanian experts/stakeholders)
- Let's have a look first at the interactive map!

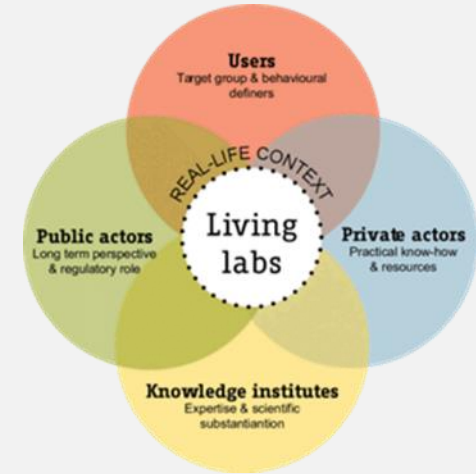


Course logic + living lab



Overview Process

- How did we get here?
 - Course Redesign: New vision, new case (Aug-Sept 21)
 - SURF innovation proposal (Nov 21-Apr 22)
- Objectives of SURF innovation
- Five missions to Jordan
 - Scoping (May 2022)
 - Identifying partners (July 22)
 - Interviewing key actors in movies & curriculum development (Nov 22)
 - Securing permission (Feb 23)
 - Shooting mission (Mar 23)



Interactive three layered map – lessons learnt

- One key lesson – how to sustain living lab?
 - Joint thesis student research
- The map introduces 7 stakeholders (4 farmers, 2 officials; 1 consultant)
- 3 layers reflect 3 dimensions of a design challenge:
 - Context (water resources/infrastructure)
 - Problem owners (7 profiles)
 - Design challenge experienced by problem-owner

- But how was this made?



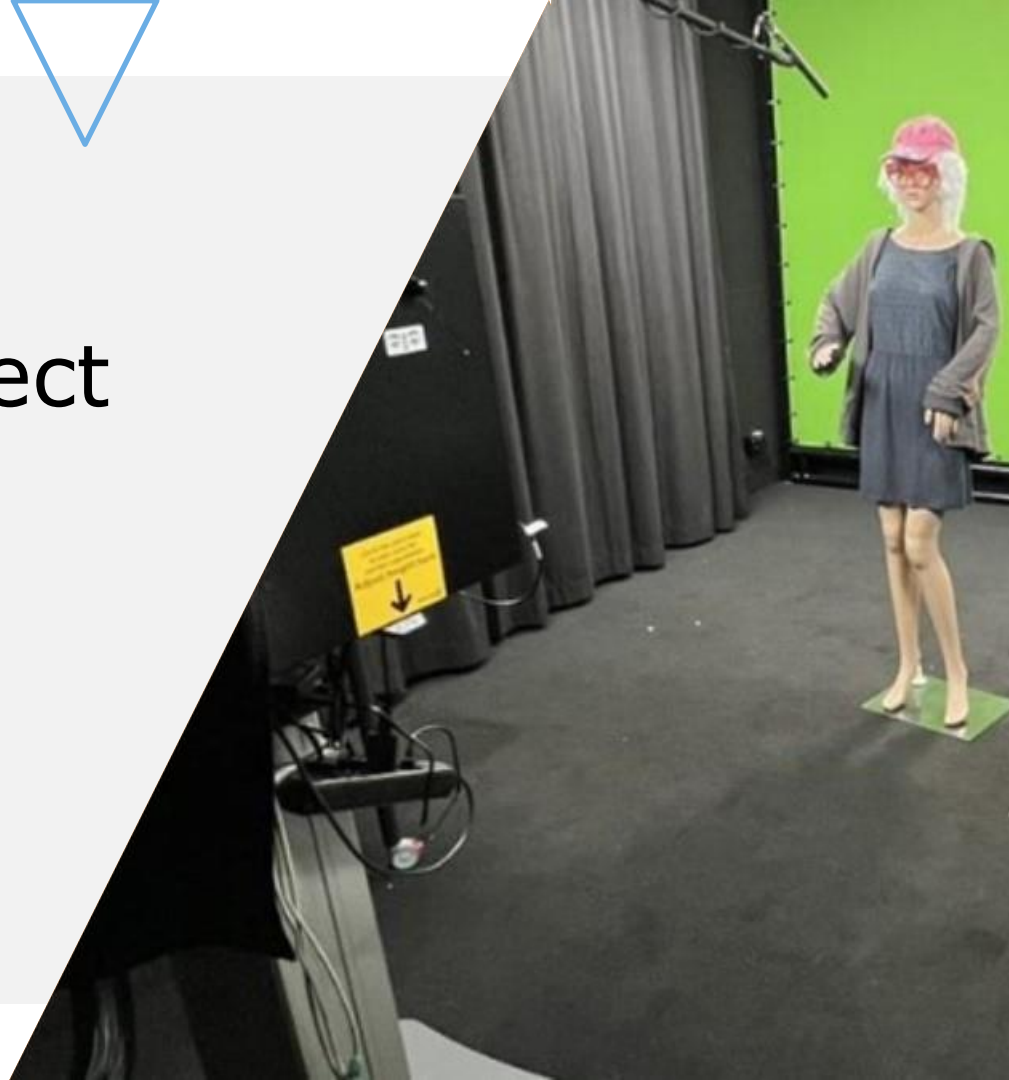
Role of media in the Virtual tour



Making video fit the context: case study



Not a typical project



Requirements

- Achieve the active engagement from an actual field trip



Two typical scenarios

- XR for immersive experience
- Guided tour scene by scene



Challenge: finding structure

No:



Scripts



Goal > outcome >
activity



Distant expert

So?



1 map



3 "layers"



7 "expert profiles"

Structure

- Context - infrastructure
- Problem owner – local interviews
- Focus - challenges

- For video:
 - What - who- where



Project snippits

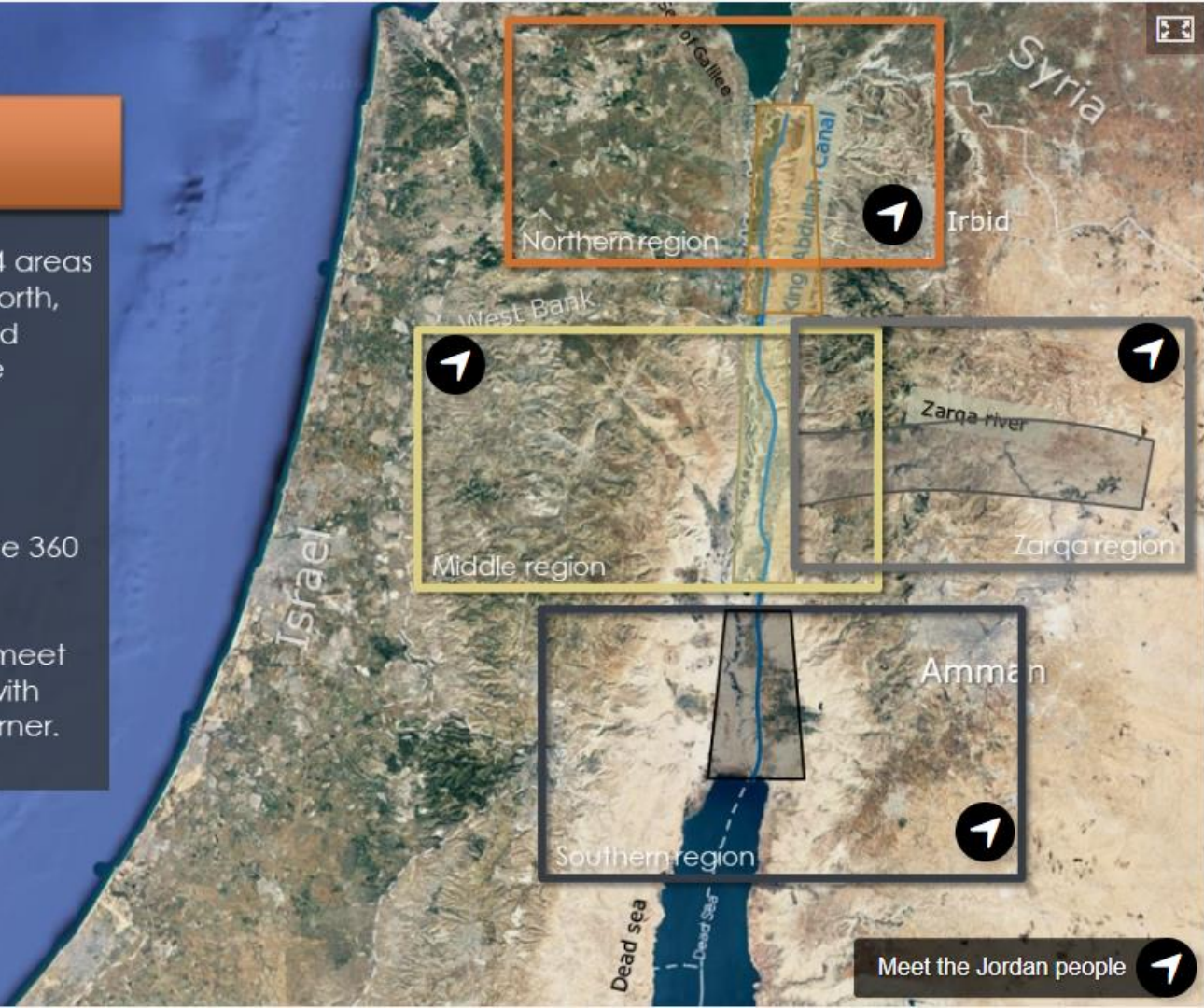


Key infrastructure - overview

In your Jordan field trip, we have 4 areas to explore: the environment rich north, the dry south, the Zarqa region and middle of the Jordan valley where different water ways merge.






Watch all videos in the regions to discover the infrastructure and experience the Jordan valley in the 360 views.

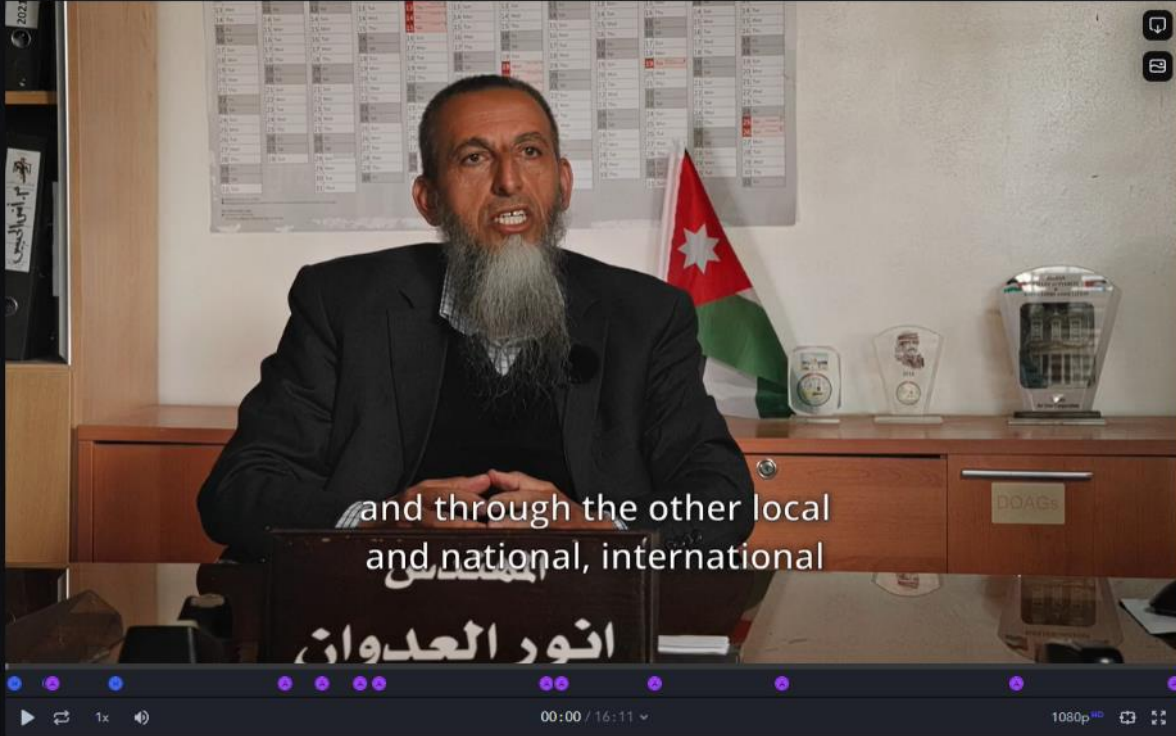
Done with the infrastructure? Go meet the people and their challenges with the button on the bottom right corner.



WRM34306 - Video Assets - March 2023

Number of assets: 430
 Total duration: 08:05:58.710

Thumbnail	Reel	File	Scene	Tags	Description	Timecode	Duration	Frame	Format	File path
										WRM34306-20230308-340.MP4
	A008	A008-WRM34306-20230308-341.MP4	Zarqa River	B-Roll, Day6, Jordan, River, Slowmotion, WRM34306, Wastewater, Zarqa	-	09:14:01:26	00:00:10:28	50p	H.264, 1280 x 720, 50p, AAC	J:\23002_WRM34306_LivingLab_Jordanie_GerloBorghuis\04_Transcoded_Media\Camera\A008\DCIM\101_0308\A008-WRM34306-20230308-341.MP4
	A008	A008-WRM34306-20230308-342.MP4	Zarqa River	Alfalfa, B-Roll, Day6, Farm, Jordan, River, Slowmotion, WRM34306, Wastewater, Zarqa	-	09:14:17:36	00:00:05:14	50p	H.264, 1280 x 720, 50p, AAC	J:\23002_WRM34306_LivingLab_Jordanie_GerloBorghuis\04_Transcoded_Media\Camera\A008\DCIM\101_0308\A008-WRM34306-20230308-342.MP4
	A008	A008-WRM34306-20230308-343.MP4	Zarqa River	B-Roll, Day6, Intake, Jordan, Pump, River, Slowmotion, WRM34306, Wastewater, Zarqa	-	09:14:47:14	00:00:07:10	50p	H.264, 1280 x 720, 50p, AAC	J:\23002_WRM34306_LivingLab_Jordanie_GerloBorghuis\04_Transcoded_Media\Camera\A008\DCIM\101_0308\A008-WRM34306-20230308-343.MP4
	A008	A008-WRM34306-20230308-344.MP4	Zarqa River	B-Roll, Day6, Jordan, Pump, River, Slowmotion, WRM34306, Wastewater, Zarqa	-	09:15:07:16	00:00:10:04	50p	H.264, 1280 x 720, 50p, AAC	J:\23002_WRM34306_LivingLab_Jordanie_GerloBorghuis\04_Transcoded_Media\Camera\A008\DCIM\101_0308\A008-WRM34306-20230308-344.MP4



uploaded 9mo ago

(no description)

16 Comments File Information

Timecode Search Download Hide

00:00 Hi Alex Bolding, here is an updated version of this video, based on your feedback. Audio and subtitles are also restored in this one.

00:36 New b-roll here

00:38 Nice!

01:31 Changed the direction of this shot

Looks good now!

15 new comments

Leave your comment here...

00:00

Send

A photograph of a hallway with a patterned carpet and a white wall. The carpet has a large green and brown floral pattern. The wall is white with a decorative pattern. A white triangular overlay is positioned on the left side of the image, partially covering the hallway. The text "To the product" is written in black on the white overlay.

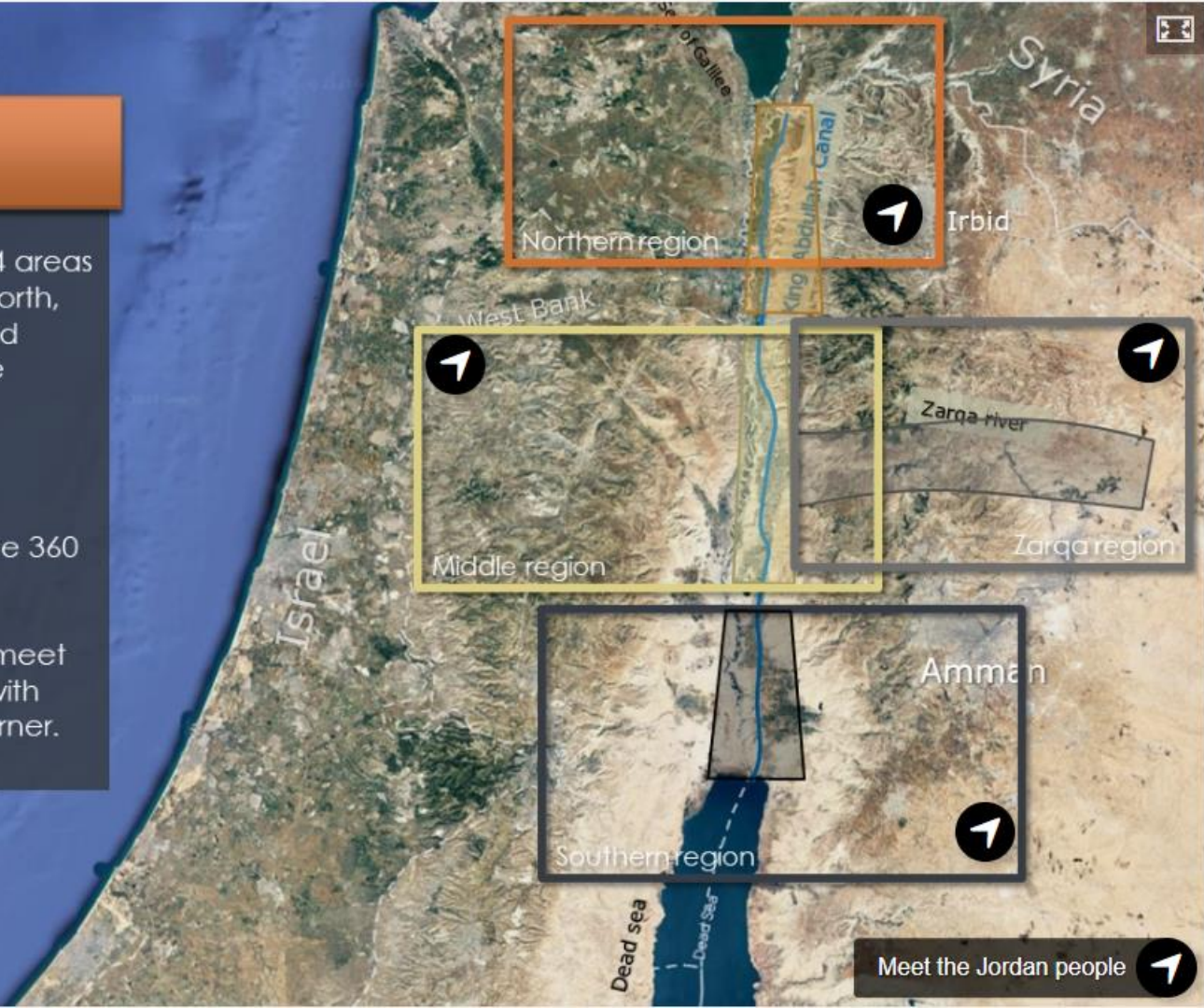
To the product

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Done with the infrastructure? Go meet the people and their challenges with the button on the bottom right corner.



People in Jordan – Farmers & experts

First, get to know the farmers and experts in the Jordan valley on the right, then discover their challenges. Don't forget the people in governance via the button on the right bottom corner.

Challenges:
History along the Zarqa river

Challenges:
Water quality & quantity across the valley

Challenges:
Crops in different regions



Mohammad Salahat,
farmer

Fadi Al-Sari,
farmer

Basil Al-Wir,
large scale farmer

Mohammad Duqqah,
local consultant

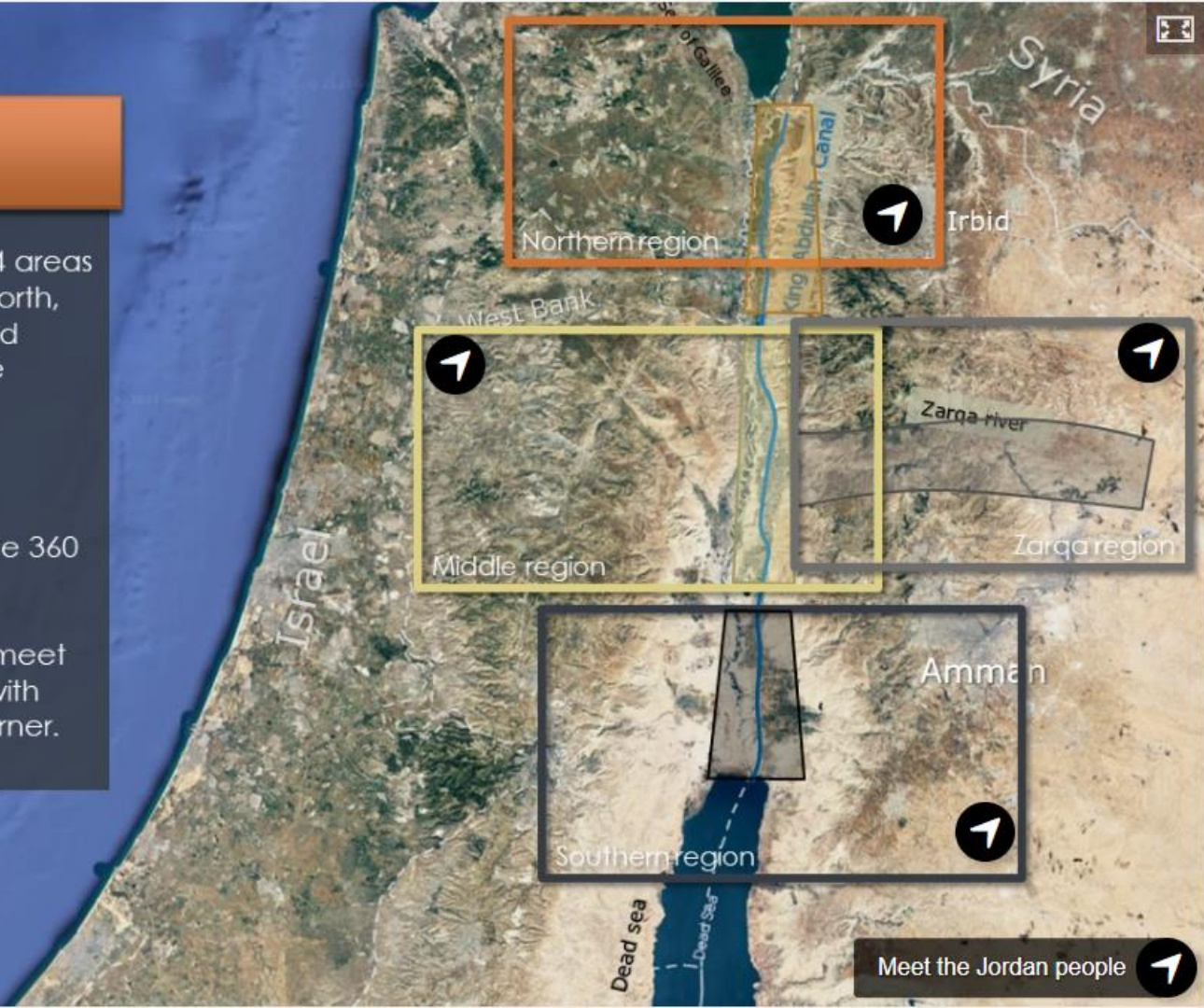
To the people in governance

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Key infrastructure – Zarqa region

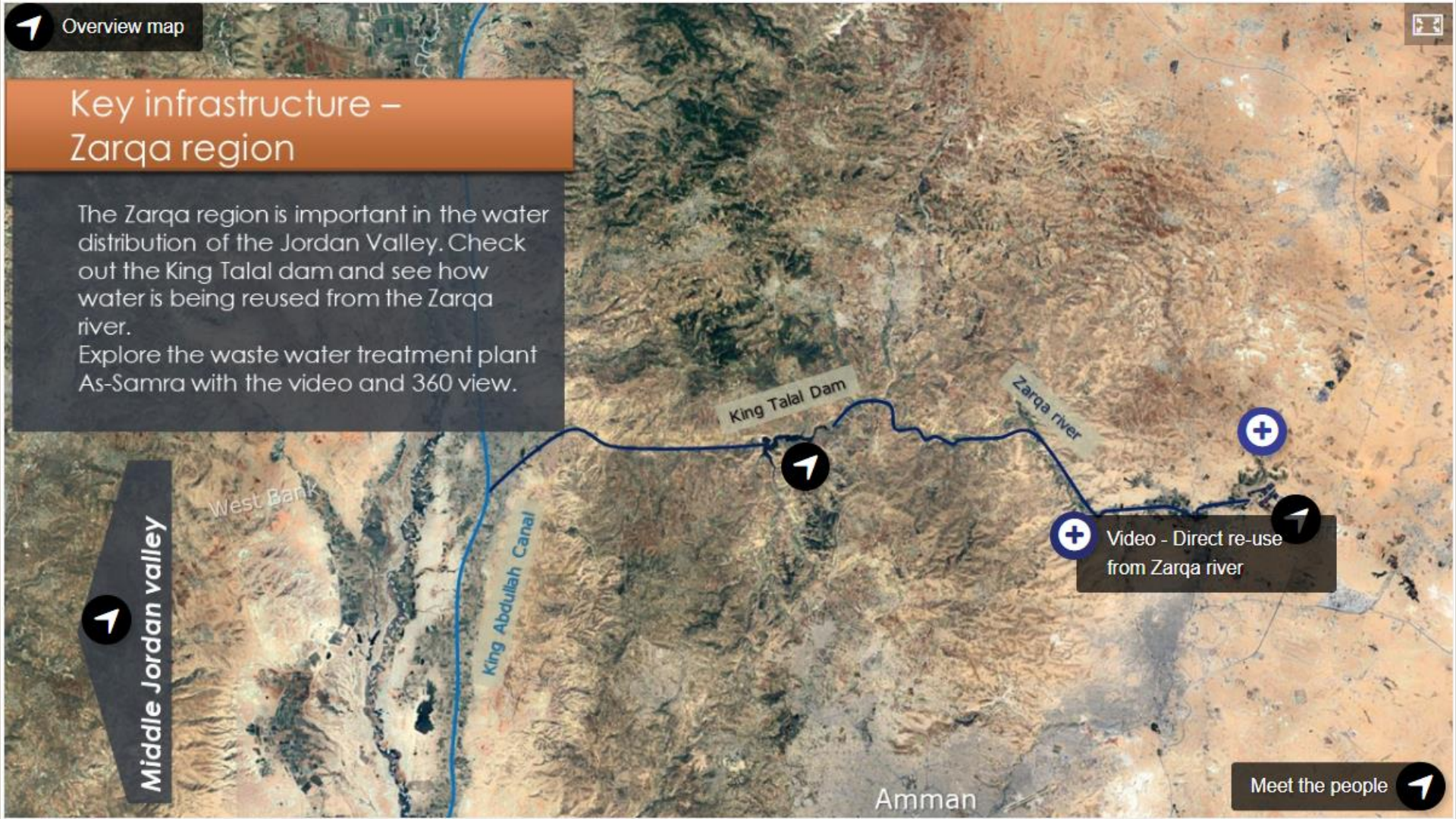
The Zarqa region is important in the water distribution of the Jordan Valley. Check out the King Talal dam and see how water is being reused from the Zarqa river.

Explore the waste water treatment plant As-Samra with the video and 360 view.



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Middle Jordan valley

West Bank

King Abdullah Canal

King Talal Dam

Zarqa river

Amman

Video - Direct re-use from Zarqa river

Meet the people

Key Zarq

The Zarq
distribu
out the
water
river.
Explor
As-Sar



▶ 0:00 / 1:19



Mi

Amman

Wanna know more?

- Watch our 'the making of' movie (9.30 min) presenting 7 lessons learnt
 - <https://wur.yuja.com/V/Video?v=726849&node=3567023&a=98631622>
- Questions about the use of living lab in design courses:
 - Alex.bolding@wur.nl
- Questions about the audio-visual aspects:
 - Pim.vanscholl@wur.nl
- THANK YOU FOR YOUR ATTENTION!

