

Learning and action alliances for Nexus
environments in an uncertain future

Pilot presentations

Galilee Pilot

Slide 1# Update on the work done so far (general presentation)

- *Description of the main pilot-LAA achievements by M18*

The main achievement of the Hula Valley Pilot were in proving the water saving potential by implementing APV in orchards, with minimal negative impact on the fruit production.

- *How would you describe the process until now: very satisfactory, good, difficult/can be improved?*

The results achieved are good and the farmers were satisfied with the possibilities to implement APV in their orchards.

- *Have you already identified how the LENSES approach (the project outcomes) will help address a basin-level WEF E Nexus challenge and change outcomes?*

The LENSES APV approach fully implemented at the Kineret Watershed will free about 15% irrigation water in orchard fields, to the nature.

Slide 2# Update on the work done so far (participatory activities)

- Description of the participatory activities

Following is a description of the many meetings we had with farmers, regulators, industrialists and managers at the Kibbutzim regarding the LENSES project and the results of the experiments done.

- What has worked well so far, and what hasn't worked so good?

The simulation of installing plastic sheets about the trees instead of the panels gave us a good estimation on the effects when APV will be installed, but this has to be approved.

Slide 3# Next steps and barriers/ problems detected

- *Description of the core barriers/ problems detected*

The barriers we are experience now is the regulation barriers on applying APV in agricultural fields. We are expecting that this will be changed in the near future.

- *Any ideas on what needs to be done to overcome existing barriers?*

We are discussing it with the office at the Department of physical planning at the Regional Authority.

Activities with the community

Meeting farmers and farm advisors at the Rosh Pina Auditorium, presenting the LENSES project's results of the first year by Dr Moshe Meron.

Farmers and advisors were asking questions and showed high interest in the results of saving water for irrigation.



Pilot experimentation

The APV methodology was tested by simulating the shade casted, by the photovoltaic panes on the trees.

It was done with two different APV companies in two different orchards, in Kibbutz in the valley and in another Kibbutz on the mountain.



The orchard of Japanese palm at
Ayelet Hashaar



The orchard of nectarine at Yiftah

Meeting with industrial partners concerning the digitalisation and use of APV in orchards



Meeting at Agri-light pilot



Meeting with Agmatix
company

Several meetings with the Netafim irrigation factory and the manager of the orchard at Yiftah concerning the idea of APV implementation.

Several meetings at Kibbutz Yiftah with the Economic CEO and the delegates from Agri-Light panel's industries.

Several meetings with the officials of the Upper Galilee Regional Council regarding the application of the proposed system to the Galilee orchards.