



AGRITECH HUB KAZAKHSTAN

LOCAL RESOURCES, GLOBAL POTENTIAL

AGRITECH HUB: WHO WE ARE



AgriTech Hub Kazakhstan is a private-public partnership that combines resources of public and private universities, business and government organizations.

Our mission is to seek, identify and transfer new technologies and know-how to the agrarian sector of Kazakhstan.

AgriTech Hub successfully collaborates with leading research institutions, international development organizations and multinational companies around the world.

AGRITECH HUB: OUR PARTNERS



Our network includes:

Science and Technology:

- USDA
- Michigan State University
- Cornell University

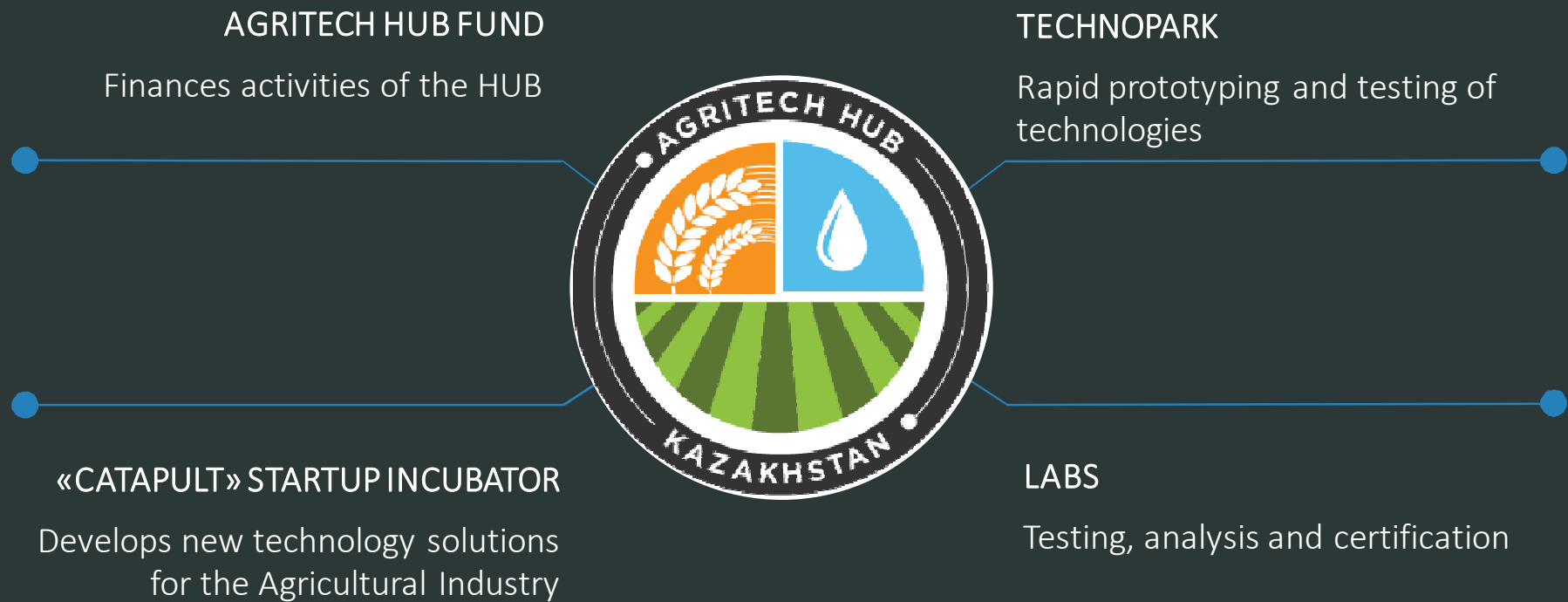
Development Organizations:

- Asian Development Bank
- EBRD
- The World Bank
- FAO
- UNESCO

Business:

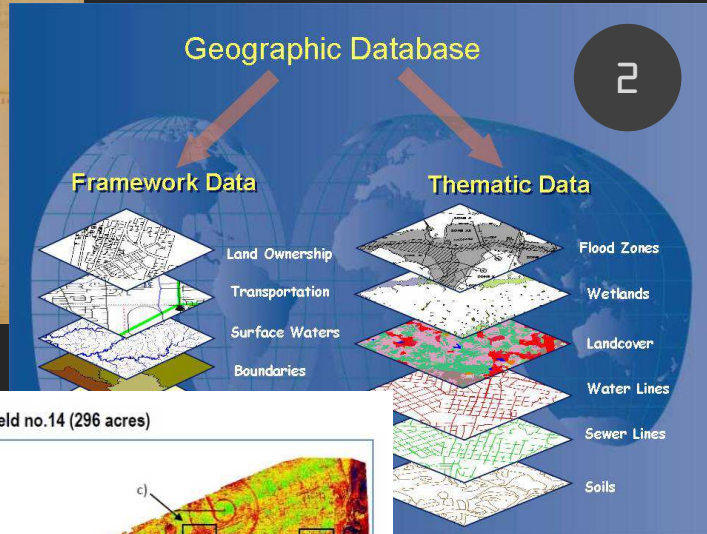
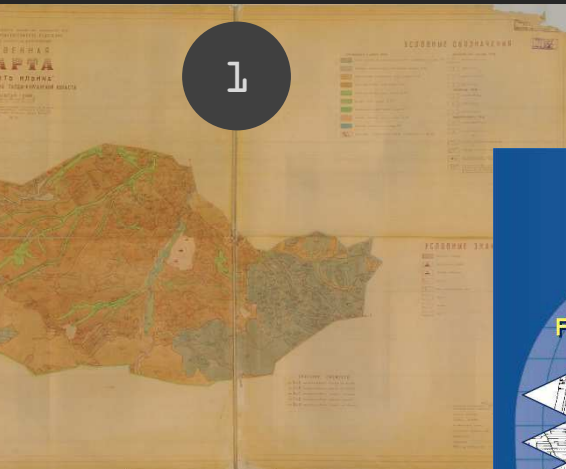
- Farm Frites
- Staa Food Group
- Honeycomb Corporation
- Beef Producer Association of Kazakhstan

AGRITECH HUB: STRUCTURE

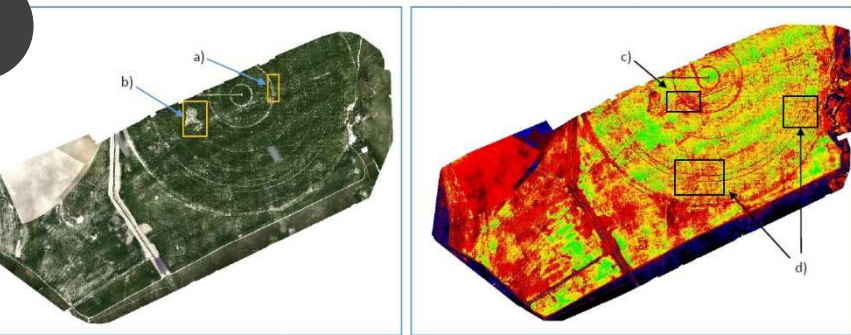


OUR PROJECTS

GIS BASED DECISION SUPPORT SYSTEMS FOR FARMERS



Almaty region, Kazakhstan, Field no.14 (296 acres)



- a) Soil compaction
- b) Mechanical damage
- c) Pest damage
- d) Salination



Mission:

Creation of modern GIS based decision support systems for farmers (digital, content-rich maps, analytics)

Deliverables:

- Transition from analog maps to digital
- Creation of digitized support system for smart farming
- Improved capacity to analyze, predict risks and manage agricultural assets
- Improved yields and reduced input costs

Partners:

- Michigan State University
- University of Reno
- USDA

DISEASE RESISTANT ROOTSTOCK INTRODUCTIONS TO KAZAKHSTAN



Rooting of G.41 Apple Rootstock from tissue culture plants



Mission:

Introduction and localization of disease-resistant rootstocks to Kazakhstan.

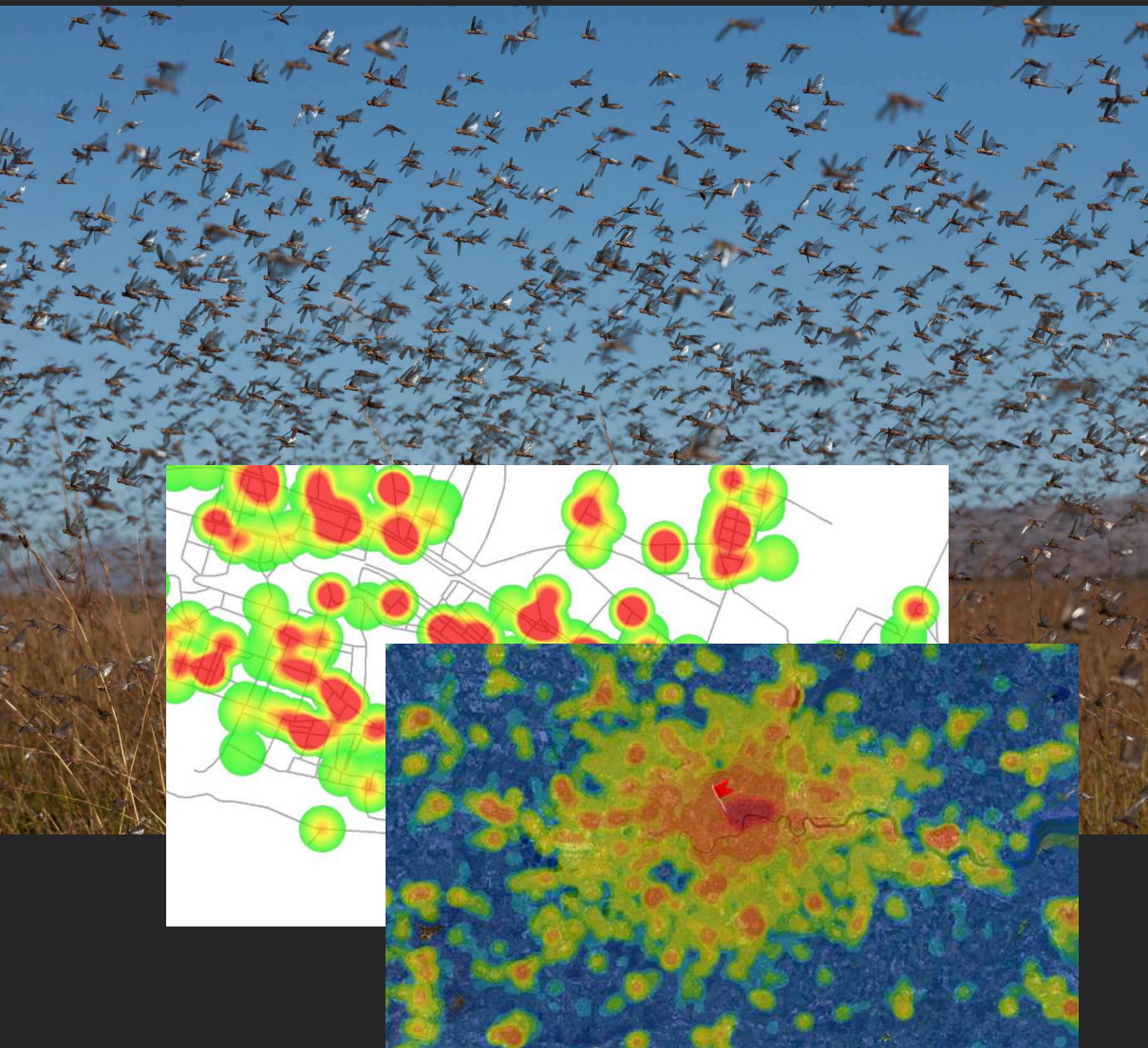
Deliverables:

- Introduction and localization of Geneva series of
- rootstocks developed by Cornell breeding program
- Significant improvement of yields
- Creation of local supply of rootstocks
- Sustainable development of apple orchards, reduced susceptibility to diseases and pests.

Partners:

- Cornell University
- USDA

LOCUST MANAGEMENT DECISION SUPPORT SYSTEM



Mission:

Development of a GIS based decision support system for the management of locusts.

Deliverables:

- Early detection/Early Response system for locust management
- Improved ability to manage pest outbreaks
- Reduced taxpayer burden

Partners:

- USDA
- Michigan State University
- ENEA

BIOLOGICAL CONTROL OF HERBICIDE RESISTANT WEEDS



Mission:

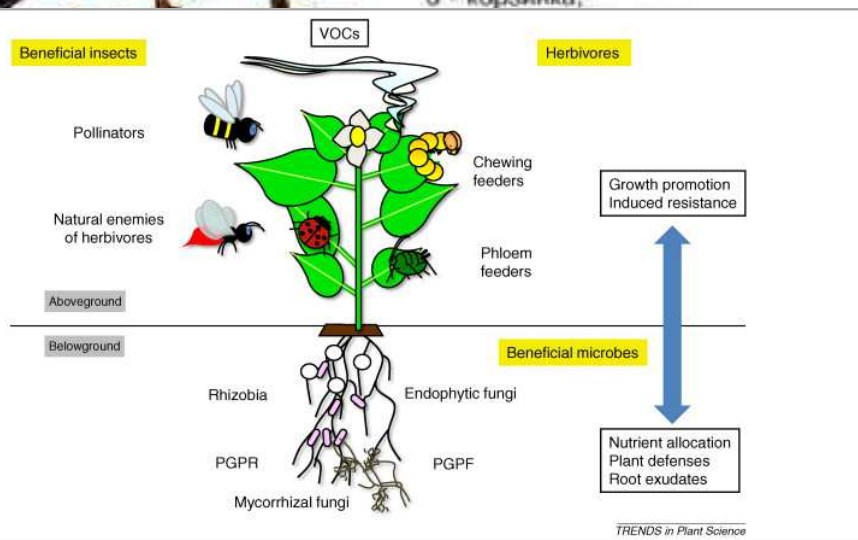
Implementation of biological control methods to reduce the population of quarantine weeds in Kazakhstan.

Deliverables:

- Significant reduction of population of certain weeds
- Reduced risk of future outbreaks
- Reduction of chemical (herbicide) pollution of agricultural land
- Creating a foundation for organic farming

Partners:

- USDA
- ENEA



BIOLOGICAL CONTROL OF MOSQUITO INFESTATIONS



Mission:

Implementation of non-chemical (biological) methods for mosquito control.

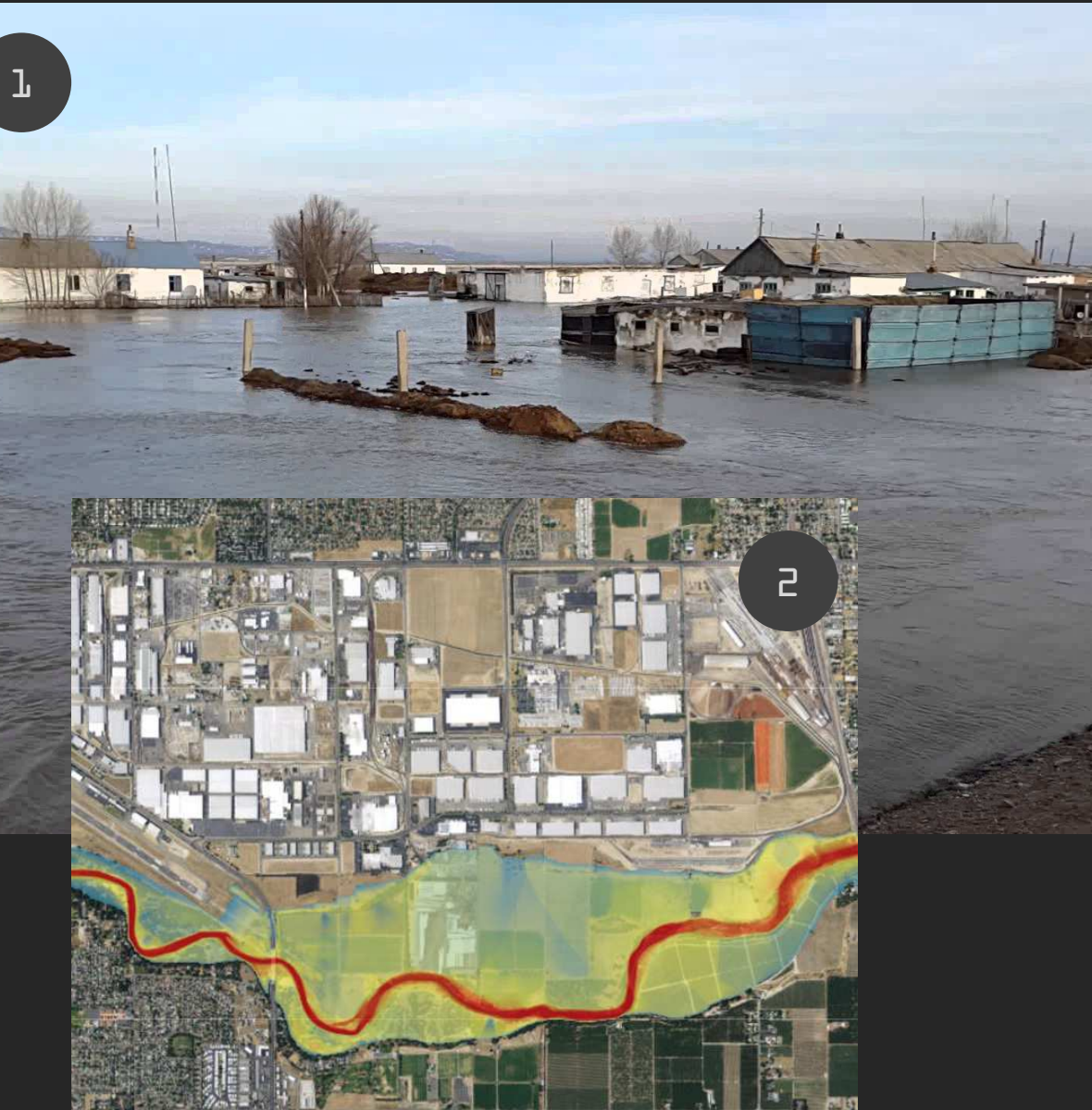
Deliverables:

- Significant reduction of mosquito population
- Reduced risk of future outbreaks
- Reduced chemical pollution (pesticide)
- Improved quality of life

Partners:

- USDA
- ENEA

FLOOD MANAGEMENT DECISION SUPPORT SYSTEM



Mission:

Creation of GIS based decision support system for flood management

Deliverables:

- Reduced burden on taxpayer associated with flood response and disaster recovery
- Improved ability to predict and manage flood risk
- Better disaster recovery planning
- Reduced risks to life and property

Partners:

- Michigan State University
- University of Reno, Nevada
- USDA



PARTNERSHIP BUILDING

AGRI TECH SUMMIT

Resolving issues associated with agricultural value chain requires participation of many stakeholders, including business, government and academia. We created AgriTech Summit to provide a platform for free exchange of views and ideas.

AgriTech Summit participants discuss most pressing issues in agriculture and ways to solve them with new technologies, know how and/or government intervention.

Participants also have an opportunity to exchange ideas or gain new knowledge at engaging master-classes, lectures and workshops.





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