2GETHER 4 STRONG DIGITAL AGRICULTURE

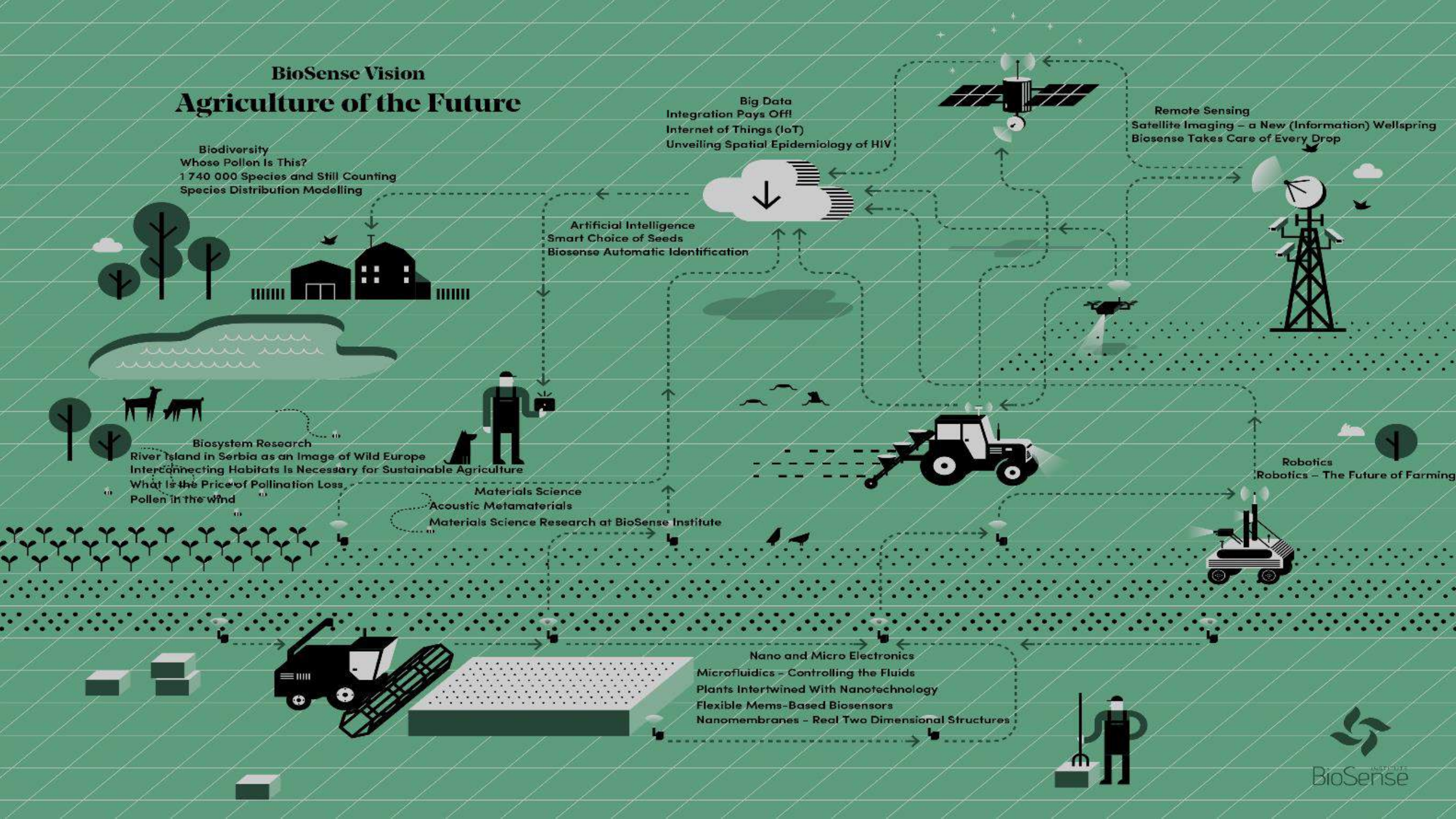
DIGITAL TRANSFORMATION OF AGRICULTURE

• CONNECTING THE DOTS •

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INSTITUTE BioSense

18-20 APRIL 2018, SOFIA, BULGARIA


BioSense Vision
Agriculture of the Future
Biodiversity
Whose Pollen Is This?
1 740 000 Species and Still Counting
Species Distribution Modelling
Big Data
Integration Pays Off!
Internet of Things (IoT)
Unveiling Spatial Epidemiology of HIV
Remote Sensing
Satellite Imaging – a New (Information) Wellspring
Biosense Takes Care of Every Drop
Artificial Intelligence
Smart Choice of Seeds
Biosense Automatic Identification
Biosystem Research
River Island in Serbia as an Image of Wild Europe
Interconnecting Habitats Is Necessary for Sustainable Agriculture
What Is the Price of Pollination Loss
Pollen in the Wind
Materials Science
Acoustic Metamaterials
Materials Science Research at BioSense Institute
Robotics
Robotics – The Future of Farming
Nano and Micro Electronics
Microfluidics - Controlling the Fluids
Plants Intertwined With Nanotechnology
Flexible Mems-Based Biosensors
Nanomembranes - Real Two Dimensional Structures
BioSense


KEY MESSAGE #1
FARMERS NEED TO SEE TO BELIEVE.

OPEN DAYS

First Digital Farm in Serbia

PHYSICAL PART

VIRTUAL PART

KRIVAJA, BAČKA TOPOLA

Digital Farm

DIGITAL FARM OPENING, 20 MARCH 2018



AGROSENS PLATFORM AT GLANCE

www.agrosens.rs

THE WEB AND MOBILE PLATFORM OFFERS VARIOUS FREE SERVICES FOR CROP MONITORING AND PRODUCTION MANAGEMENT

- Digital field records
- Weather forecast
- Satellite crop indices
- Pest & plant diseases
- Soil analysis overview
- Overview of costs
- Machinery calibration
- Crop photo uploads

AgroSense

MORE THAN 8000 USERS

INSTITUTE BioSense

INTERNET OF FOOD & FARM 2020: USE - CASES

FRUITS DAIRY ARABLE VEGETABLES MEAT









KEY MESSAGE #2

WE CAN DO A LOT, BUT WE CANNOT DO IT ALONE.

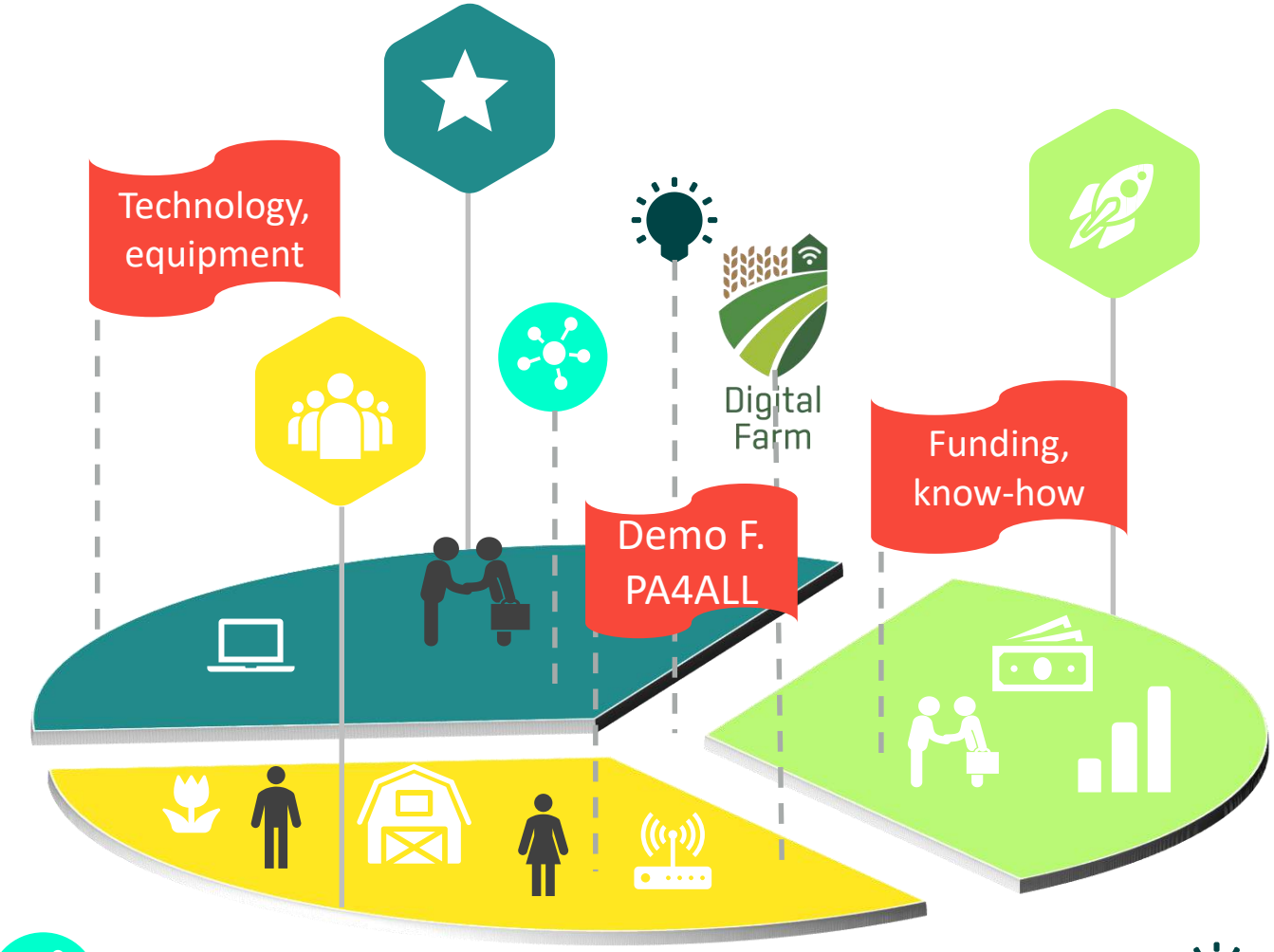
BIOSENSE AS A DIGITAL INNOVATION HUB

Competence Centre

Technology support & Shared Research Facility - access to the state-of-the-art equipment to a broad ecosystem of stakeholders.

End-user, testbed

Valuable KNOW-HOW exchange through Demonstration farm, an open air show room bringing together wide range of actors.



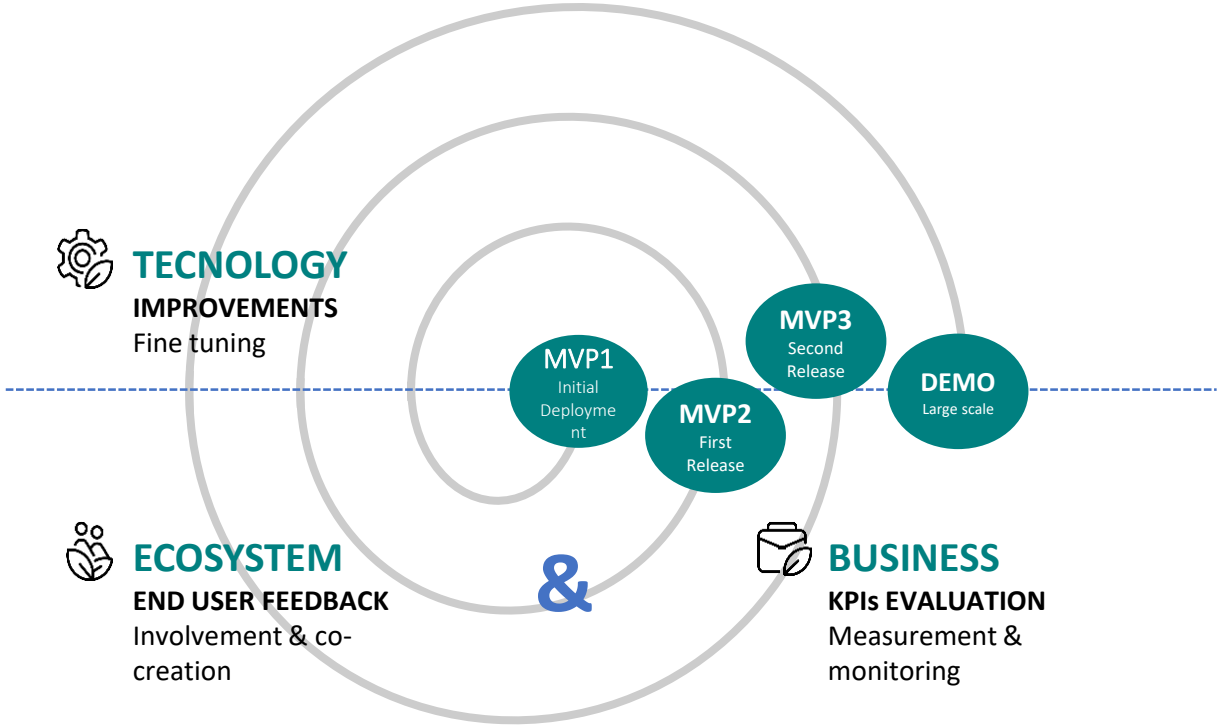
RESEARCHERS
START-UPs
INVESTOR COMMUNITY,
SMEs,
AGTECH EXPERTS,
FARMERS.

Business support service

Helping pace up the speed of agrifood innovation among high-tech start-ups, SMEs & web entrepreneurs.

LEAN MULTI-ACTOR APPROACH

TESTED THROUGH



VALIDATED LEARNING:

- Demonstrating progress throughm MVPs
- Constant feedback from end-users
- Driven by the market requirements

KEY MESSAGE #3

THERE IS MONEY ON THE TABLE FOR GOOD IDEAS.



CHANNELING FINANCIAL SUPPORT FROM EC

Start

2014

- FRACTALS (2014-2016)
  - ❖ 270 applications received
  - ❖ 45 SMEs funded
  - ❖ 26 European countries
  - ❖ € 5M total investment

2015

2016

- KATANA (2016-2018)
  - ❖ 600+ applications received
  - ❖ 100 teams get small funding
  - ❖ 10 consortia receive € 100k
  - ❖ € 1.2M total investment

2017

- DIATOMIC (2017-2020)
  - ❖ Open call 1 – spring 2018
  - ❖ Open call 2 – winter 2018
  - ❖ € 70K to € 200K per consortia
  - ❖ Budget per call: € 1.5M
  - ❖ € 3M total investment

2017

IOF2020 (2017-2021)

- ❖ Open call – winter 2018
- ❖ Evaluation platform with panel of independent experts
- ❖ €100 K to €300 K per consortia
- ❖ € 6M total investment

diatomic

DIATOMIC: OPEN CALL 1

MARCH 15th – JUNE 15th, 2018

WHO CAN APPLY?

- TECHNOLOGY ADOPTERS/USER
- TECHNOLOGY PROVIDERS

FROM: EU MEMBER STATES, ASSOCIATED COUNTRIES, INTERNATIONAL COOPERATION PARTNER COUNTRY OF H2020

TOTAL BUDGET
1 500 000 EUR

PER PROJECT:
≤200 000 EUR
PER PARTNER:
20 000 TO 100 000 EUR
(FUNDED AT 100%)

Health

Agrifood

Manufacturing

IOF2020 OPEN CALL*

LOOKING FOR HIGHLY IMPACTFUL AND MARKET-READY IOT INNOVATIONS

DATE	OPEN CALL STEP
June 5, 2018	Open call official text publication
September 30, 2018	Deadline for receiving applications
October 31, 2018	Communication of the evaluation results to applicants
December 31, 2018	Contracting with successful proposals and prepayment
January 1, 2019	Start of new use cases



***SECOND HALF OF 2018,**
€5-6 MILLION

BIOSENSE AS BUSINESS ACCELERATOR

Aims to support innovative ideas from:

- Start up/SMEs of the Region
- Researchers who want to turn their research results into entrepreneurial endeavors

Focuses on long-term benefits:

- Income from licensing fees from products/services arising from the BioSense research
- Equity from start-up and monetization
- Consulting fees from investors
- Providing access to a broad network of potential customers and investors



THANK YOU!

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