




Valued Grain Chain

- *Step by step*

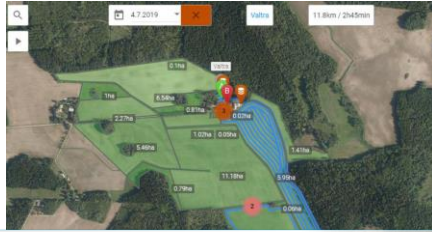
Webinar 25th of June 2020

 valued grain chain

The steps valued grain chain

1. Selective harvesting – planning 1
2. Selective harvesting – planning 2
3. Selective harvesting – harvest & logistics
4. Dryer batches
5. Preparing sales batches to market
6. Grain sale
7. Grain to buyer

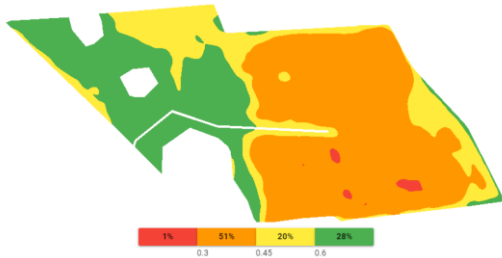
Selective harvesting – planning 1



Farm data;
Parcel borders, NDVI maps
Suonentieto Oy, DataVäxt AB

Selective harvesting
tentative plan
Agrointelli AsP

Plan check
Farmer

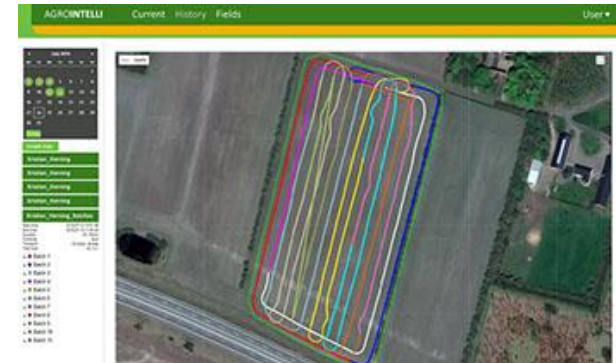
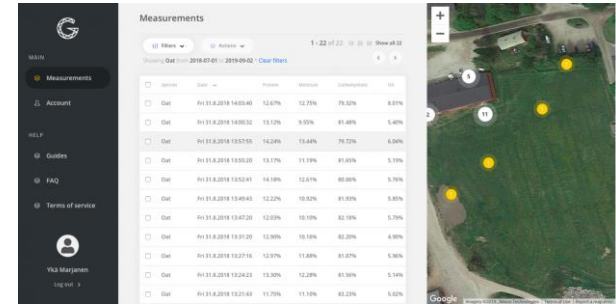
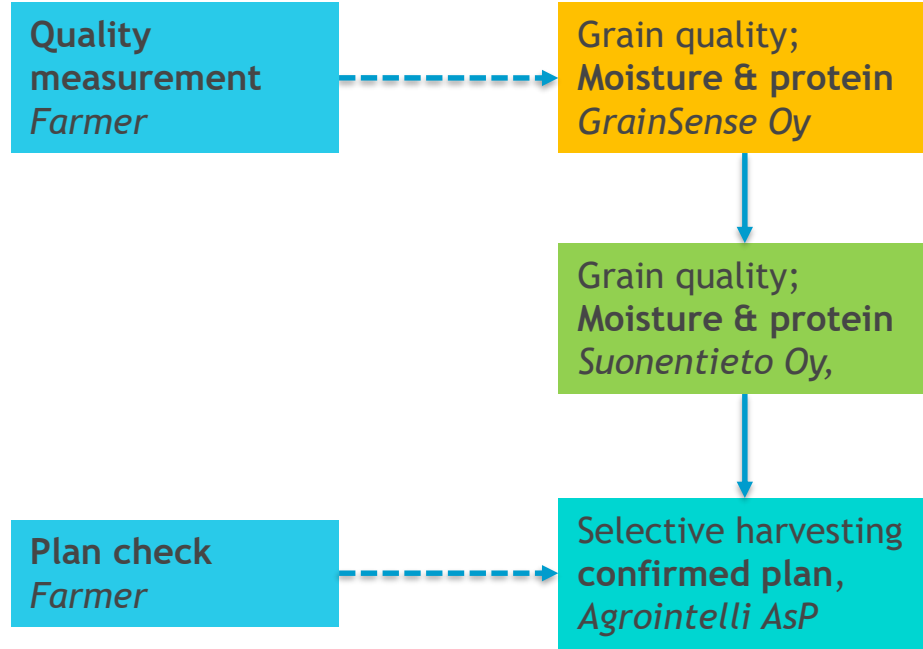


Satellite
data

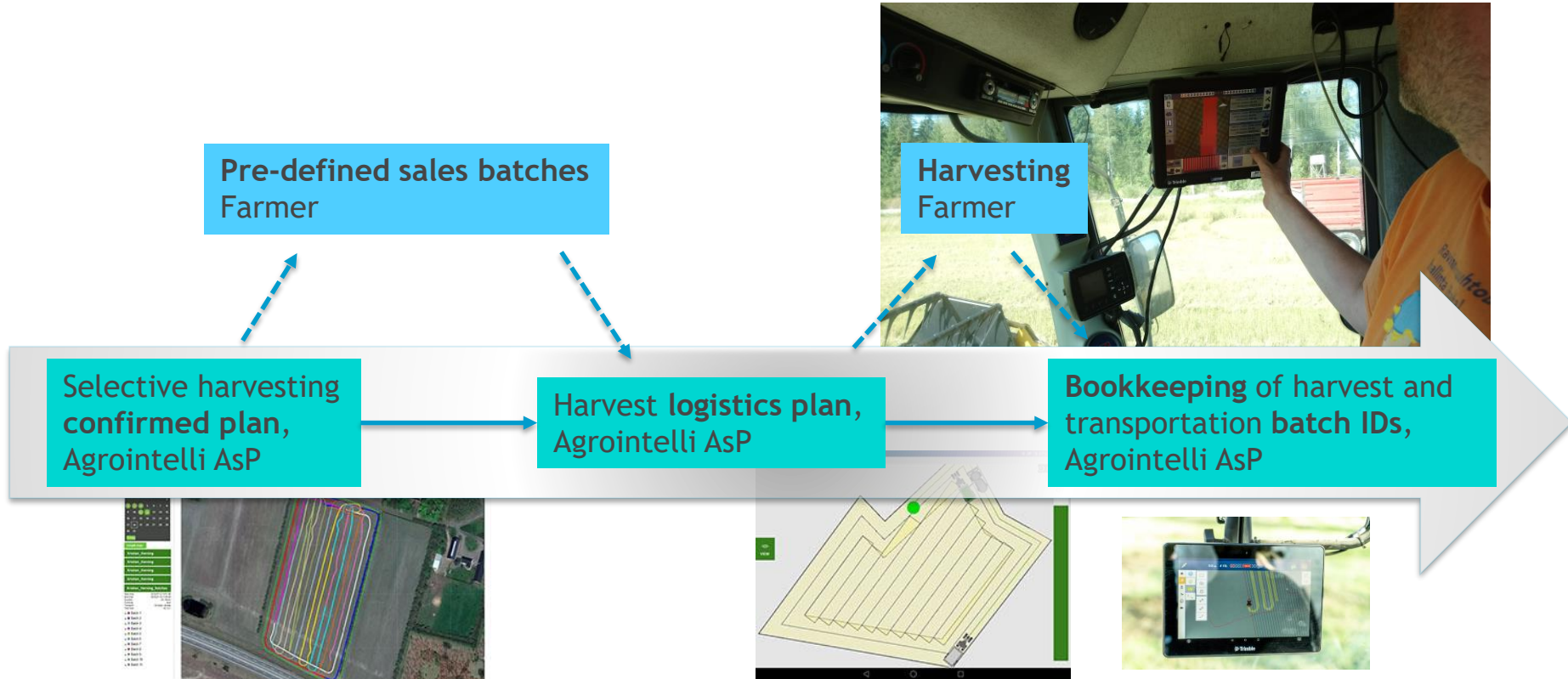
Weather
data



Selective harvesting – planning 2



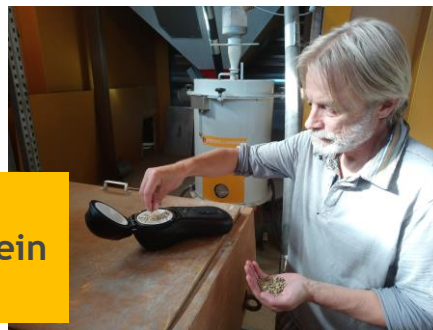
Selective harvesting – harvest & logistics



Dryer batches

Monitoring,
Farmer

Grain quality
Moisture & protein
GrainSense Oy



Bookkeeping of harvest and
transportation batch IDs,
Agrointelli AsP

Bookkeeping of dryer batch IDs
and drying parameters
Dryer system

Bookkeeping of silo batch IDs
and quality parameters
Dryer system

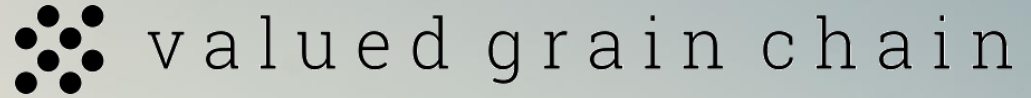
Compiling information for
carbon footprint calculation
Suonentieto Oy, DataVäxt AB

Carbon footprint
Calculation
EcoModules (Luke)



valued grain chain

Preparing sales batches to market



Creating sales batches according to quality parameters, Farmer

Taking sales batches to eMarketplace Farmer

Bookkeeping of silo batch IDs and quality parameters
Dryer system

Bookkeeping of sales batch IDs and quality parameters
FMIS

Sends sales batch with IDs and quality parameters to eMarketplace
FMIS



Grain sale



Sends sales batch with
IDs and quality parameters
to eMarketplace
FMIS

Places sales batch
to markets
Farmer

Receives sales batches to
eMarketplace, brokers the deal
Viljatori.fi

Receives information
of closed deal
Farmer

Receives information
of closed deal
Buyer



Grain to buyer



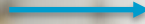
Adds detailed product
Information to eGrainPass
Farmer



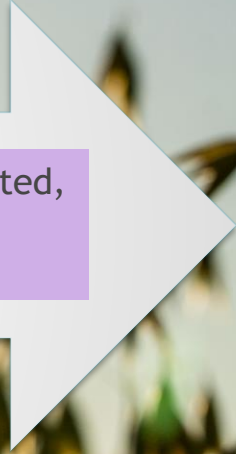
Received information
of closed deal,
initiates eGrainPass
Buyer



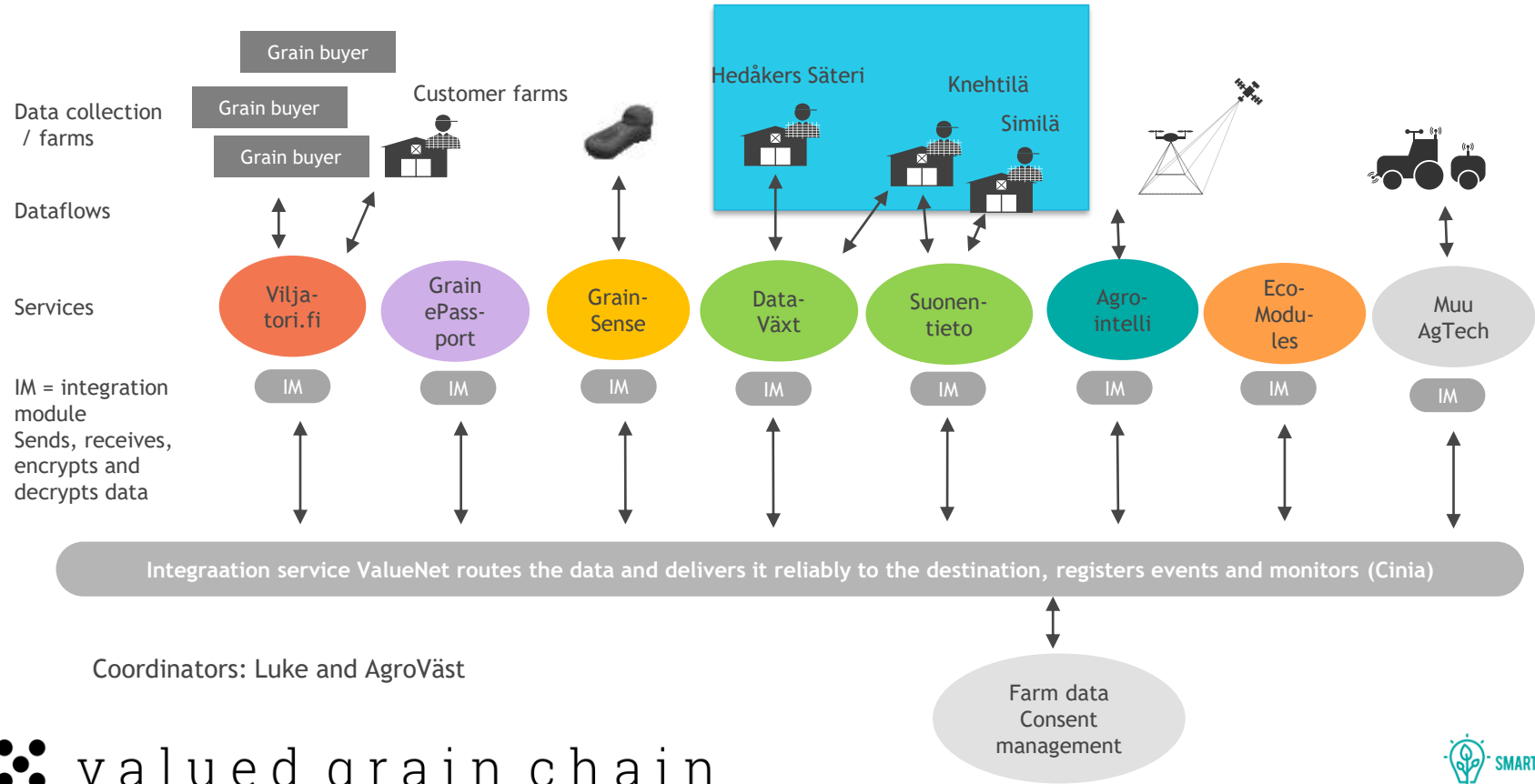
New eGrainPassport
is created
eGrainPass



eGrainpassport completed,
Grain delivered
eGrainPass



High-level system architecture



Valued Grain Chain partners

AgroIntelli AsP, DK
AgroVäst, SE
Cinia Oy, FI
DataVäxt AB, SE
GrainSense Oy, FI
Hedåkers Säteri, SE

Knehtilän tila, FI
Luke, FI
Similän tila, FI
Suomen Viljakauppa Oy, FI
Suonentieto Oy, FI

