POC, a field trial on

Sustainability and Carbon Reduction

Presented by: Yishai Ram

Date: January 2022

AKOLogic IOLOGIC Microsoft Sela

AILogic PoC

- **Bcarbon Maturing the soil prior to the PoC**
- **Carbon information stored on AKOlogic's Crop Management Platform (based on Azure).**
- **Xiologic to start their Natural Probiotic Soil Treatment**
- **Bcarbon Maturing the soil post treatment**
- **New carbon information stored on AKOlogic's Crop Management Platform and presented to the Farmer and part of the supply chain to the Food Chain.**
- **New carbon information is pushed as a feedback to Xiologic to enhance the treatment**

Xiologic develop patented probiotic formulas to help vital bacteria thrive in order to repel the negative ones, whether it is in the air we breathe, in the ground from which our food grows and even for post harvest solutions. By introducing more "good" bacteria into the environment, we deprive the pathogenic varieties of the resources necessary for their livelihood and culture, and as a result provide mankind with better air, better crops and a whole better quality of life.

AKOLogic is a platform that helps agriculture organizations to address the world's most pressing ESG and sustainability issues. We provide control & transparency for global agriculture, through the food chain ("from farm to fork") by monitoring the food quality standards.

The analytical proven tools we have developed allow us to follow to Carbon footprint and create carbon credit for the farmers.

SELA is a global company, with centers in: Israel, USA, ,and India. Leading three main activities, Technology Center, Learning solutions and Cloud. SELA Cloud is the an Msp Microsoft Azure and the first MSP Expert in the region of the Middle East and Africa.

At Sela we believe that you deserve the best practice-based service provided by reliable, honest and consistent professionals delivering the most innovative products.

Carbon removal lessons from Microsoft's Chief Environmental Officer

For Microsoft, climate change is more than an existential threat, Joppa says. "It's also clear that there's a significant business opportunity. We think we can help the world do well, and do well ourselves."

Carbon negative ambitions

Reaching "net zero" – that is, removing as much carbon from the atmosphere as we emit – is a planetary goal. However, Microsoft believes those who can take the biggest, fastest steps have an obligation to do so. That's why, in January of 2020, President Brad Smith announced the company's ambitious goals not only to be carbon negative by 2030, but to remove their historical emissions by 2050.

BCarbon

Working lands for climate solutions

Scientifically Rigorous Carbon Credits

BCarbon certifies empirically measured increases in soil carbon stocks for carbon credit trading.

Based On: Sustainability and Carbon Reduction

BCarbon
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AKOLogic Crop Management Platform

Farmer

Carbon Soil Maturement

iOLOGIC

Natural Probiotic Soil Treatment

Microsoft Cloud for Sustainability

Food Chain Stock Exchange

Data Transfer Flow

XioLogic

AKOlogic

Carbon Maturement

BCarbon

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POC milestones

Date: January 2022

AILogic POC milestones:

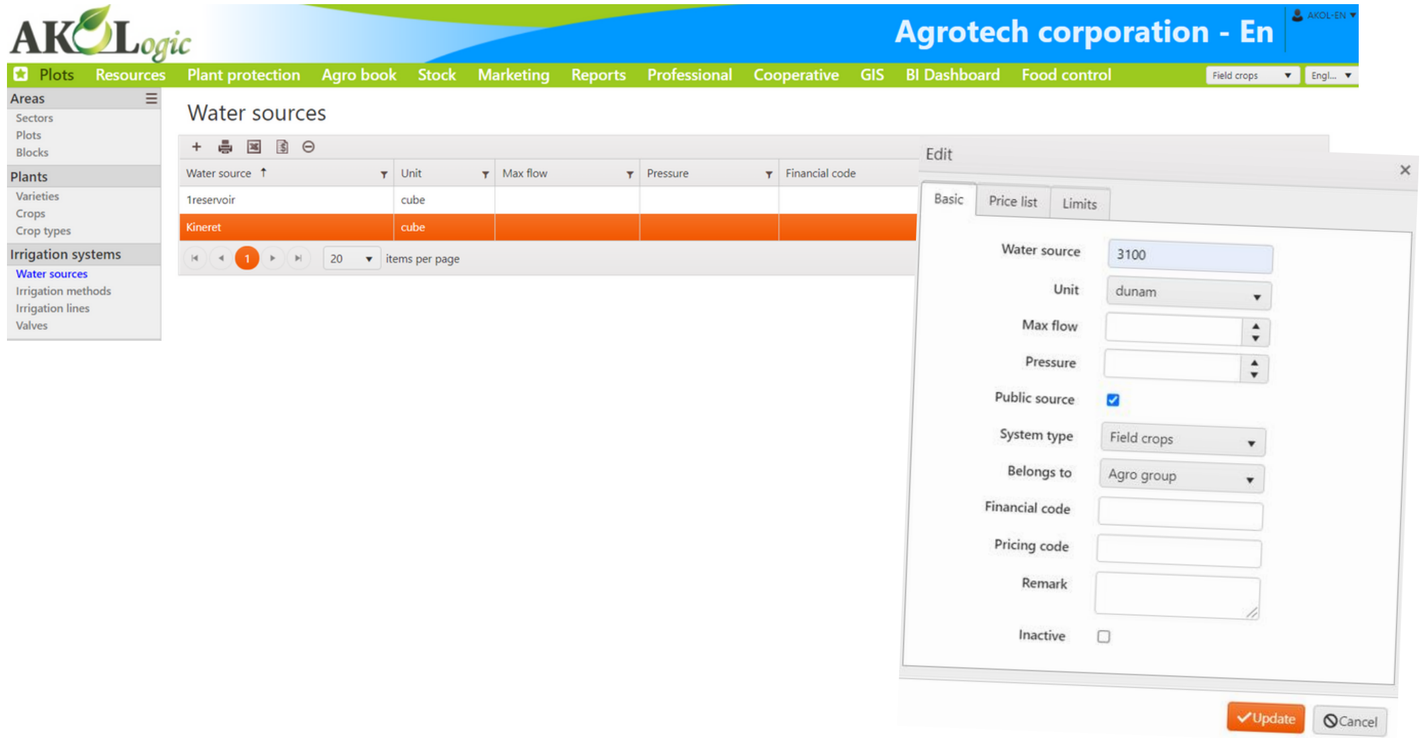
- Architect the PoC flow
- Create a short video with flow simulation
- Integrate the solution between Bcarbon, Xiologic and AKOlogic
- Create Power BI reports as part of Akologic platform to present carbon reduction

Establishment the system for the POC

List of water sources

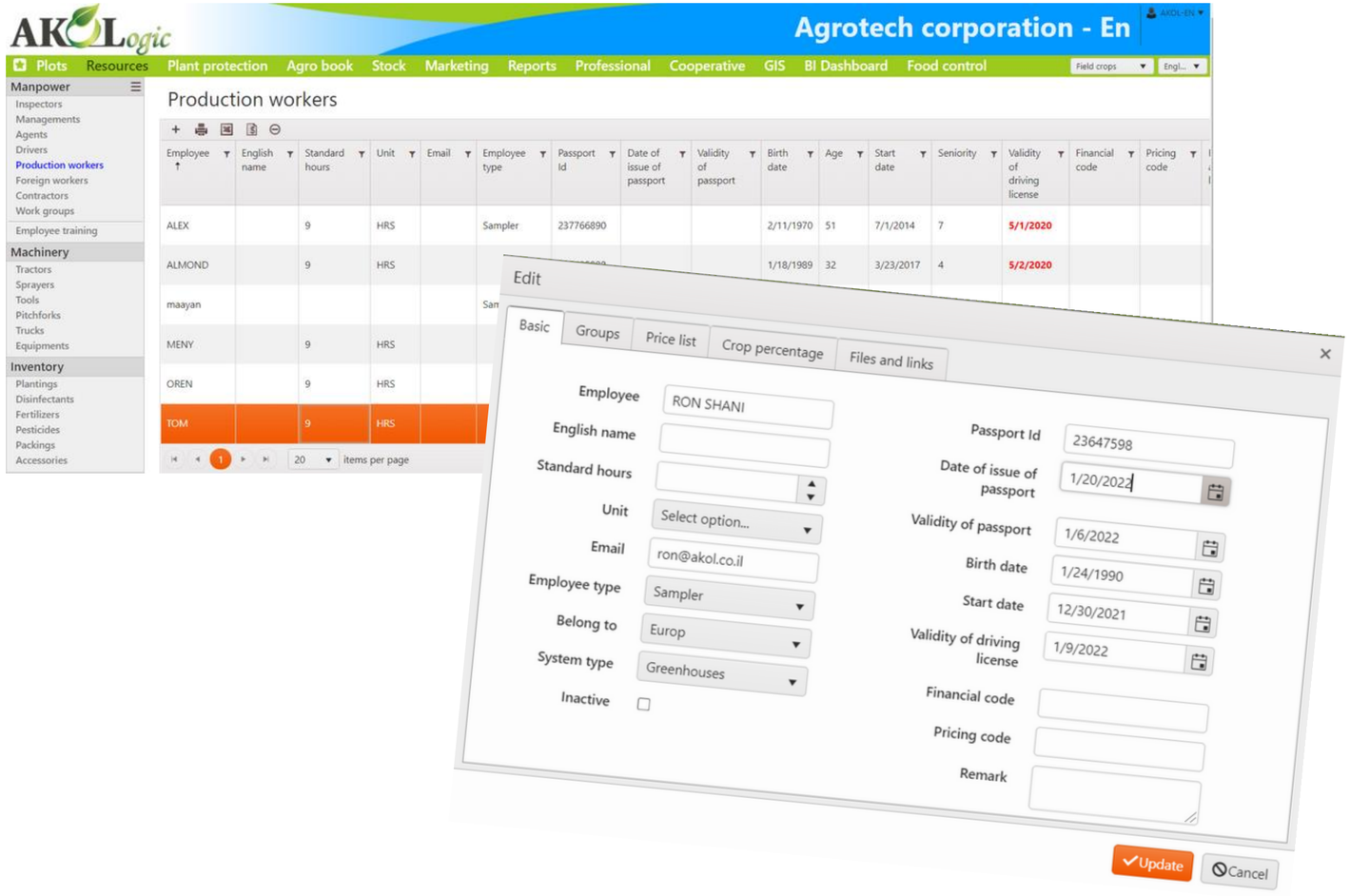
- Full name
- Include **lab test** (if available)
- Price per unit

- Full name in English



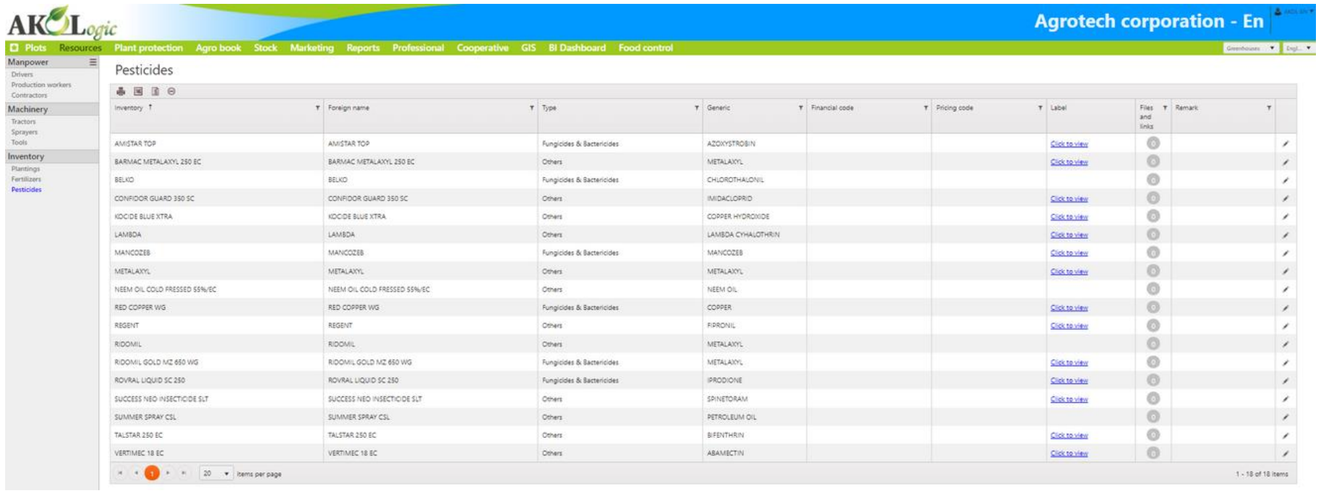
List of Employees:

- full name
- ID number
- Photocopy of ID number
- Driver's license number
- Photocopy of driver's license (if available)
- Cost per hour
- Start Date



List manure and fertilizers

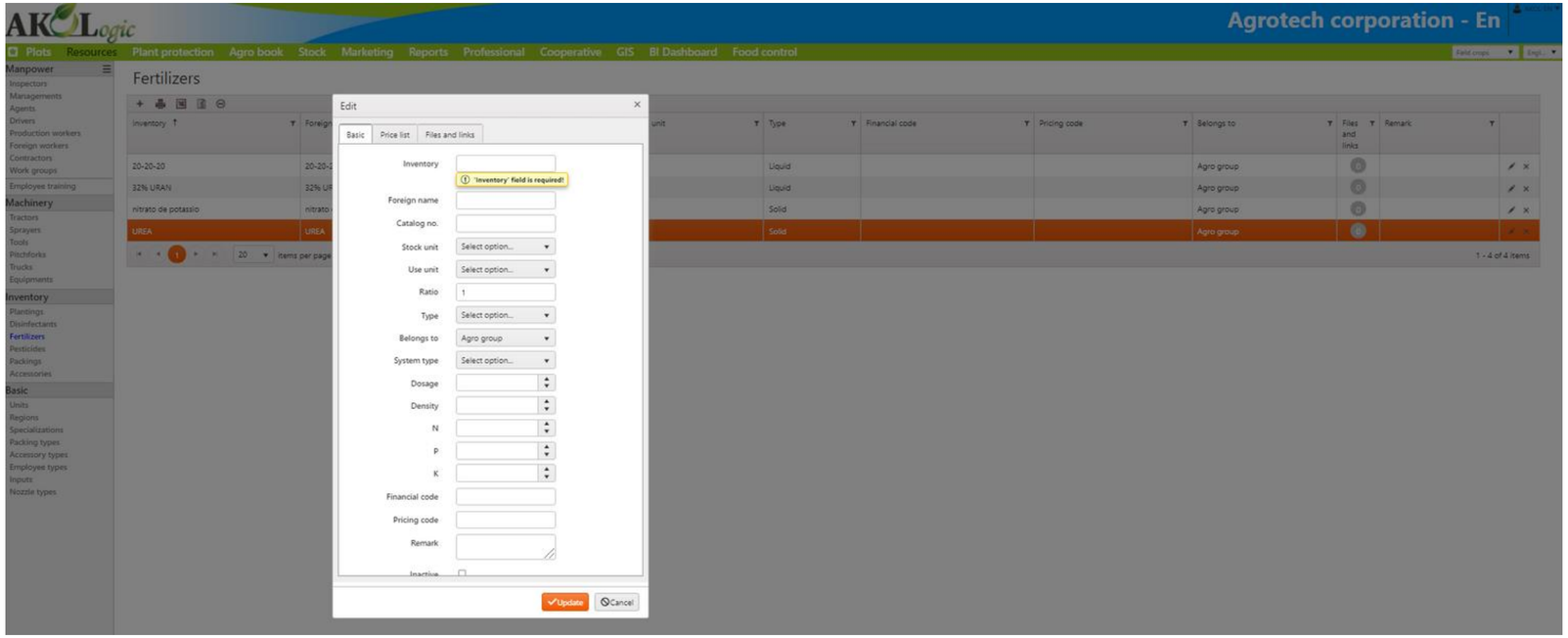
- Name of the material
- Generic name
- Generic number
- amount N.P.K
- Photo Label material



- Full name in English

List of pesticides:

- **list of the local Ministry of Agriculture (if there is).**
- **Name of the material,**
- **Generic name**
- **Generic number**
- **Permitted growth,**
- **Dosage per hectare**
- **Photo Label material**

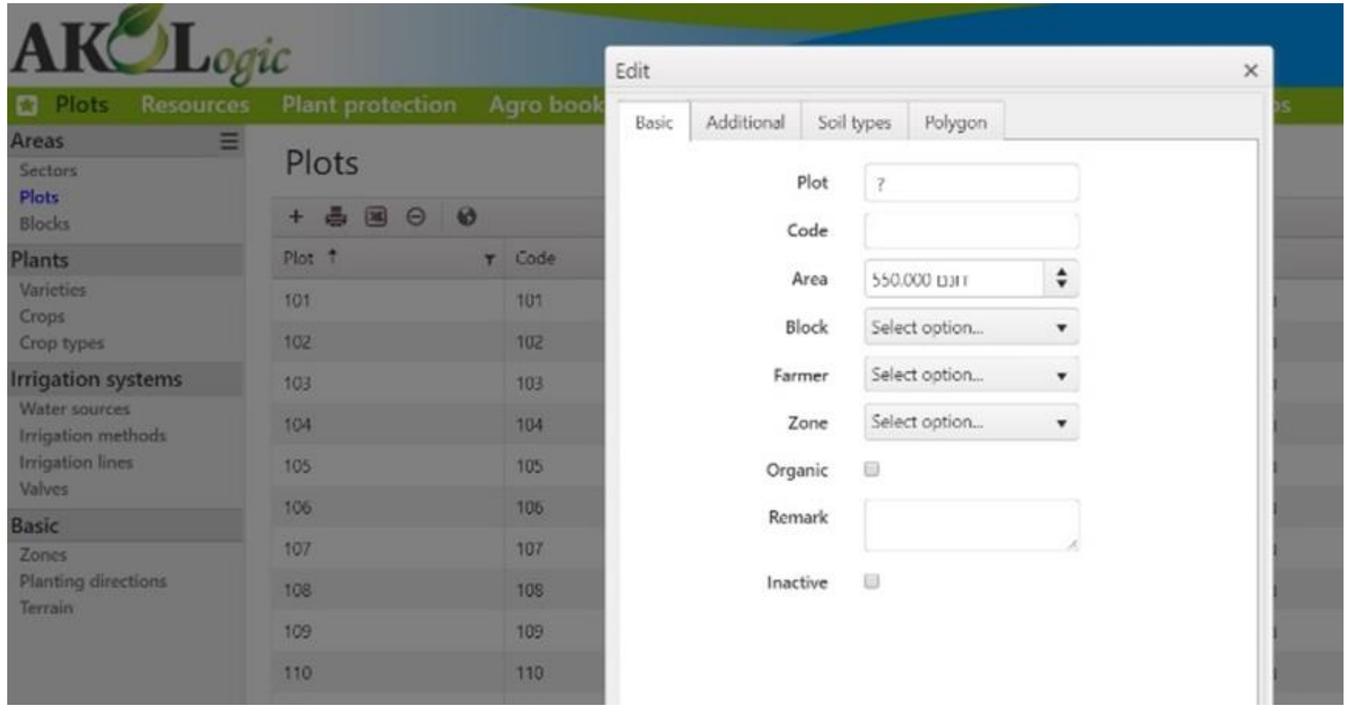


- Full name in English

List of crops

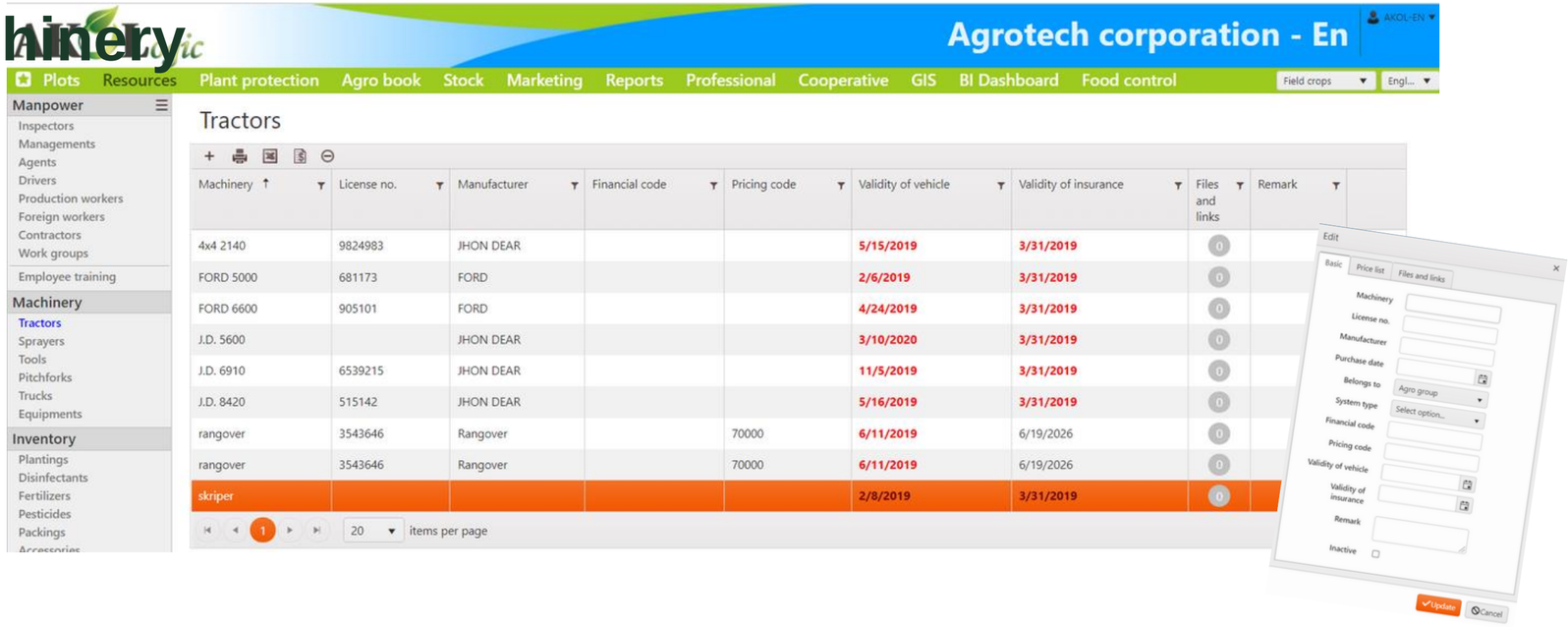
List of varieties by crops

- Full name in English



List of agricultural machinery

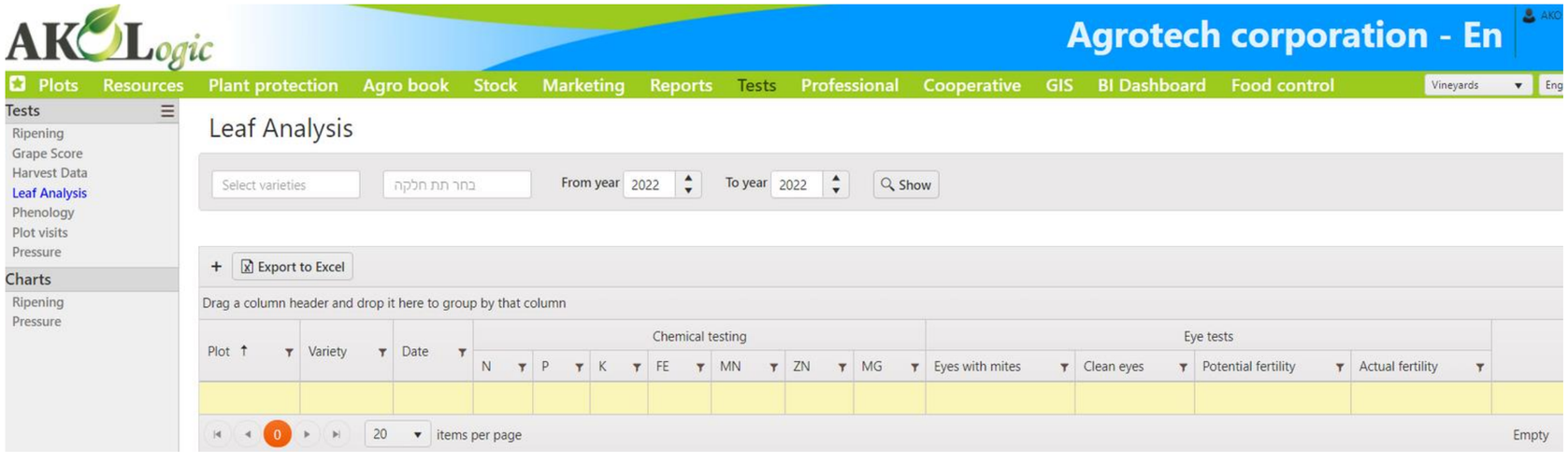
- **Name**
- **model**
- **Machine number**
- **Photo License**



- Full name in English

Soil tests and carbon pollution tests

- **Before planting**
- **During growth**
- **End of growth**

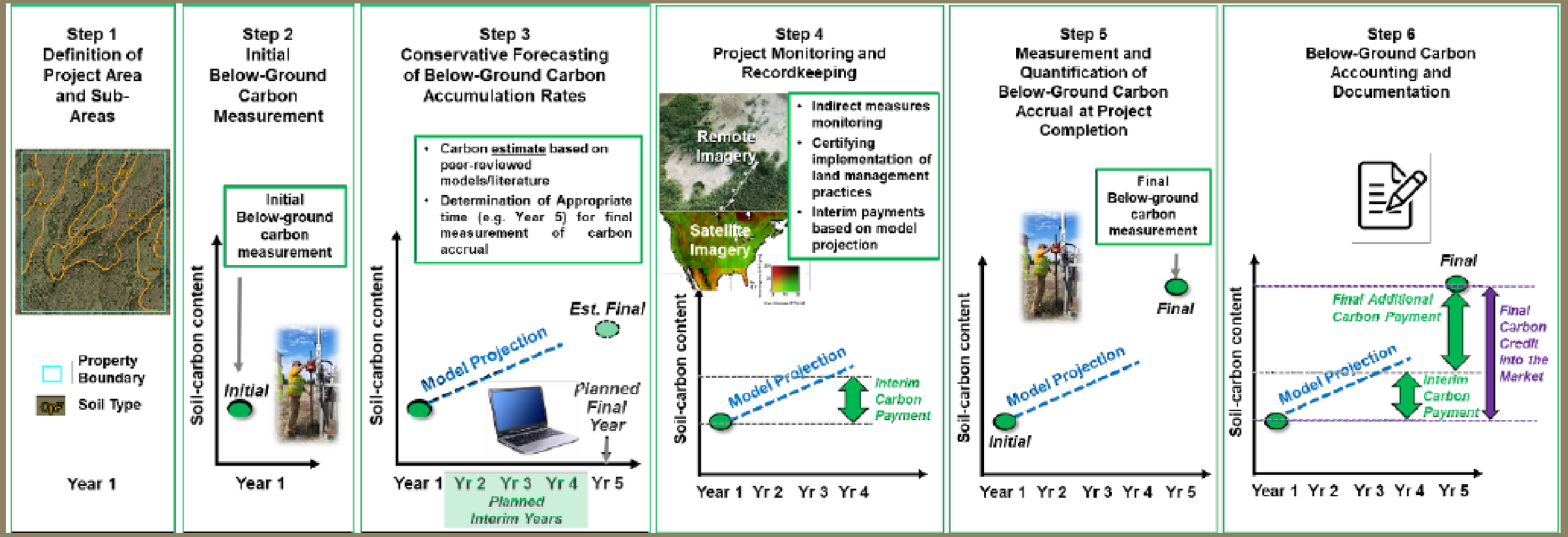


laboratory tests will be performed by the "Newe Ya'ar" the Ministry of Agriculture laboratory of Israel state

We offer an innovative tool, that allows to the agronomist the option to choose fertilizer according to the level of carbon pollution.

❖ **Based on AI tools**

PROTOCOL FOR MEASUREMENT, MONITORING, AND QUANTIFICATION OF THE ACCRUAL OF BELOW-GROUND CARBON OVER TIME



APIs - Interfaces and connections between systems

BCarbon
Working lands for climate solutions

XIOLOGIC
probiotic formulas

National Soil Laboratory

Agricultural farms:

AKOLogic, based on Microsoft's "WIN Azure" Sustainability Global Cloud

Farm Data

- Irrigation and fertilization systems
- Machinery and tractors

System	Information to	Information from
Xiologic	Fertilizer recommendation	Results
Laboratory	Soil Testing to AKOLogic	
BCarbon	Carbon credit certificate	AKOLogic Carbon conditions
farms	Credit management	Payment

Data Flow

AKOLogic, based on Microsoft's “WIN Azure” Sustainability Global Cloud

Farm Agro information

National Soil Laboratory

Probiotic Fertilizer

National Soil Laboratory

BCarbon
Working lands for climate solutions

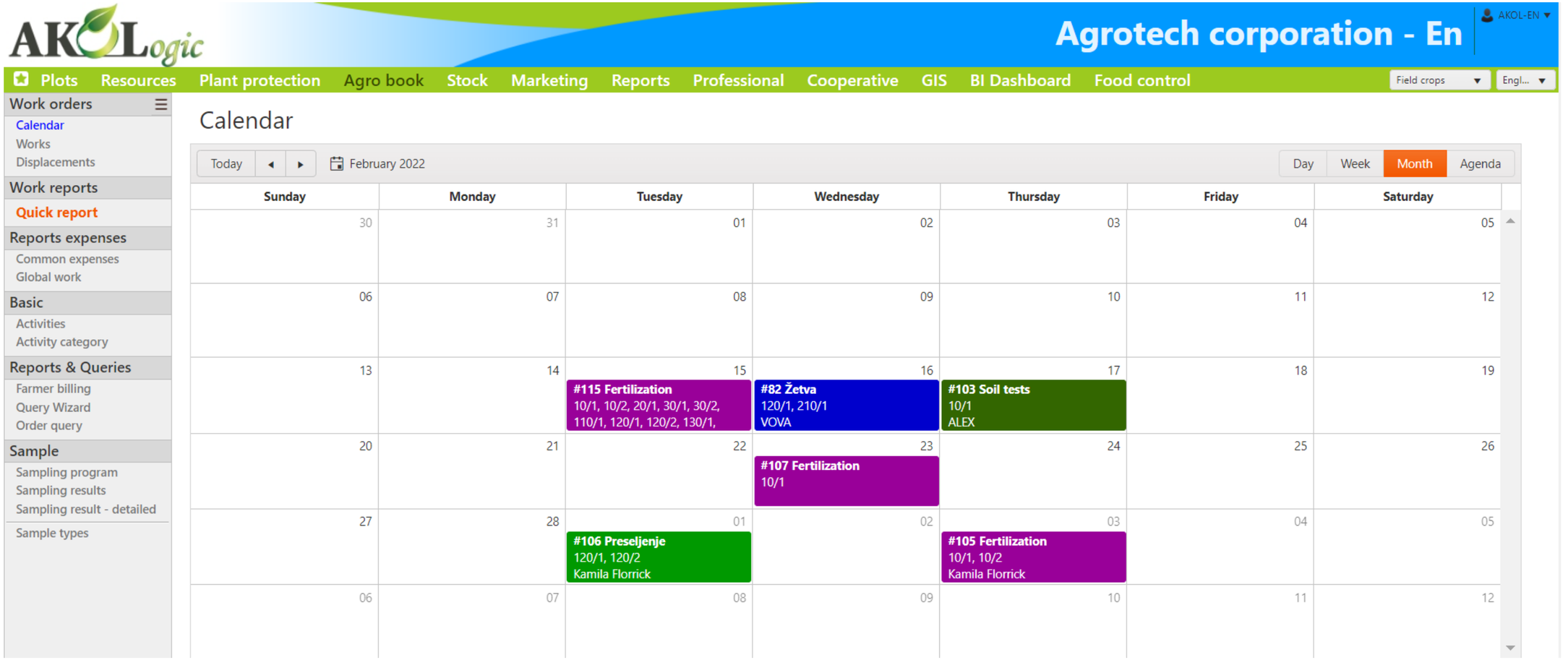
Carbon credit certificate

Farm Carbon credit

KPI

- Preforming Soil maturement and store it into Akologic
- Expected reduction of 0.5 Ton Carbon per 10 Km^2 (will be validated by Feb 15th) by using Xiologic's probiotic treatment
- Visual presentation on the data using Microsoft Cloud for Sastainability
- Following BCarbon protocol to get Carbon Credit

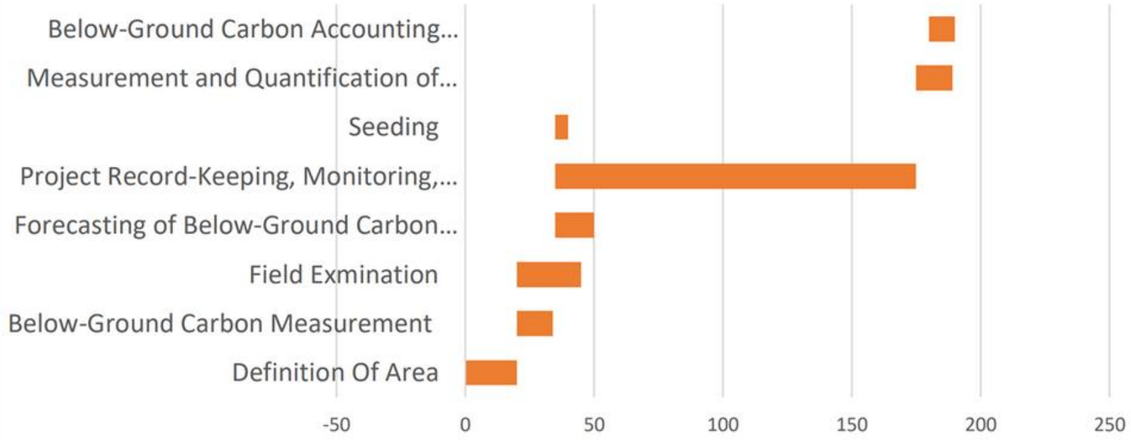
Timeline - Growth protocol for poc



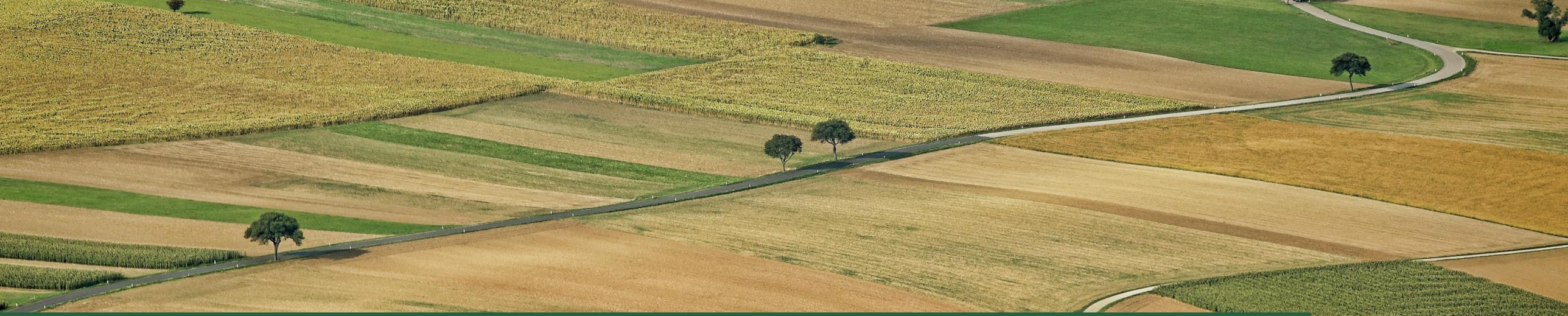
יוחלף בתכנות מפורט של הפרויקט

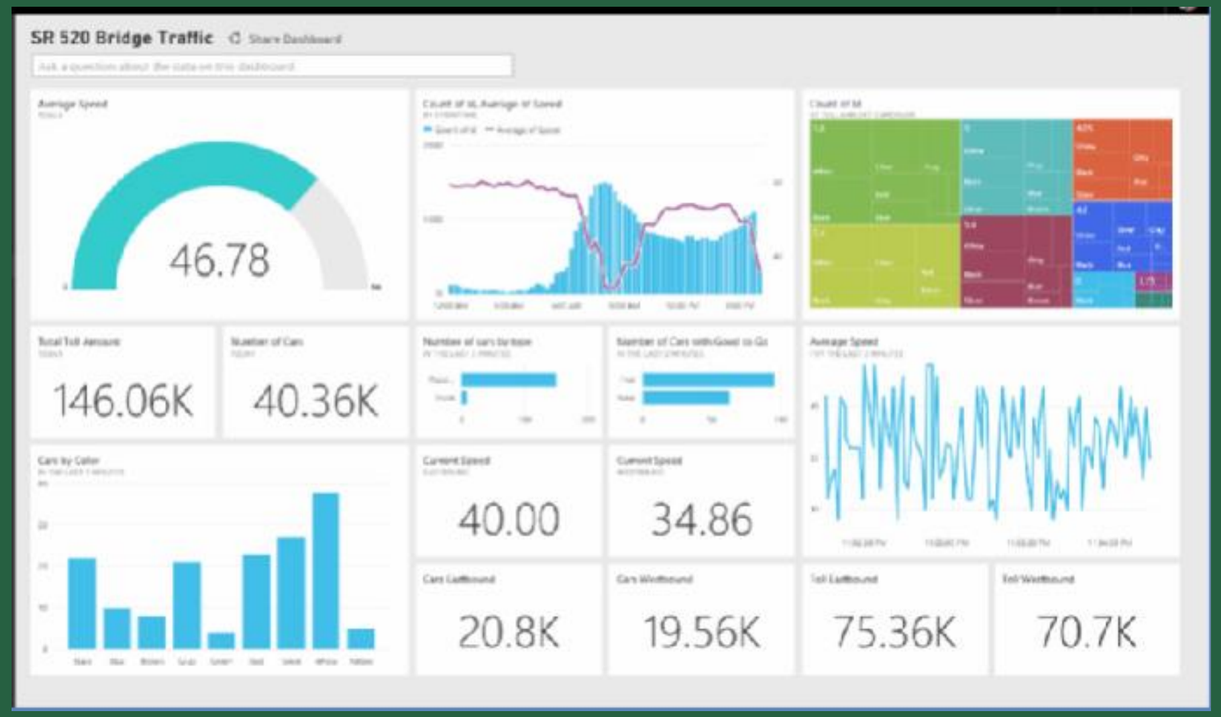
Protocol for Measurement, Monitoring, And Quantification of The Accrual of Below-Ground Carbon

Figure 1

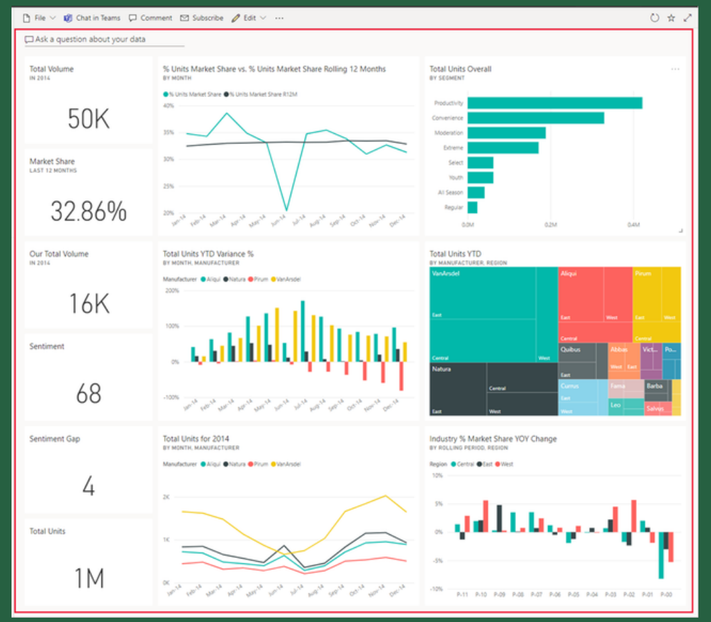


	Definition Of Area	Below-Ground Carbon Measurement	Field Exmination	Forecasting of Below-Ground Carbon Accrual Rates	Project Record-Keeping, Monitoring, and Eligibility for Interim Carbon Sales	Seeding	Measurement and Quantification of Below-Ground Carbon Accrual at the End of the Project Period.	Below-Ground Carbon Accounting and Documentation
Days From Start	-20	20	20	35	35	35	175	180
Days to Complete	20	14	25	15	140	5	14	10




SR 520 Bridge Traffic
Share Dashboard
Ask a question about the data on this dashboard
Average Speed
46.78
Count of Id, Average of Speed
Count of Id
Total Toll Amount
146.06K
Number of Cars
40.36K
Number of cars by type
Number of Cars with Good to Go
Average Speed
Cars by Color
Current Speed
40.00
Current Speed
34.86
Cars Eastbound
20.8K
Cars Westbound
19.56K
Toll Eastbound
75.36K
Toll Westbound
70.7K

BI analyzes


File
Chat in Teams
Comment
Subscribe
Edit
Ask a question about your data
Total Volume
IN 2014
50K
Market Share
LAST 12 MONTHS
32.86%
Our Total Volume
IN 2014
16K
Sentiment
68
Sentiment Gap
4
Total Units
1M
% Units Market Share vs. % Units Market Share Rolling 12 Months
BY MONTH
Total Units YTD Variance %
BY MONTH, MANUFACTURER
Total Units for 2014
BY MONTH, MANUFACTURER
Total Units Overall
BY SEGMENT
Productivity
Convenience
Moderation
Extreme
Select
Youth
All Season
Regular
Total Units YTD
BY MANUFACTURER, REGION
Industry % Market Share YOY Change
BY ROLLING PERIOD, REGION

PRODUCT ROADMAP