FEGGA

KRISTIANSTADS GOLFKLUBB & DESTINATION

STMC

How the FEGGA Scholarship has helped me with my career

Bianca Mignon Pronk & Pepe Jimeno Fernández

FEGGA Team 2022

Mikko Halla, Finland

Helgi Valor Ingolfsen & Ingibergur Alex Elvarsson, Iceland

Martin Richter, Slovakia

Josip Domic, Croatia

Pepe Jimeno Fernández, Spain

Bianca Mignon Pronk, South Africa

Education

- Support from associated companies
- Education delivered by experts in their field
- Field trips and on site visit
- Practical experience gained
- ITRC
- Attended European Tour held by Halmstad GK

Projects

- Pepe Jimeno Fernández and Ingibergur Alex Elvarsson
  - Paddle Green
- Bianca Mignon Pronk
  - Importance of irrigation on the East Course
- Mikko Halla
  - Divot Mix
- Helgi Valor Ingolfsen
  - Repair and maintain old practice green
- Martin Richter and Josip Domic
  - Turf Nursery

Bianca Mignon Pronk

- South Africa & Dutch
- MSc in Conservation Ecology
- 2021 – Kvicksund GK
- 2022 – FEGGA Scholarship Kristianstads GK
- 2023 – Sustainability and Environmental Officer Kristianstads GK

My experience and future ambitions

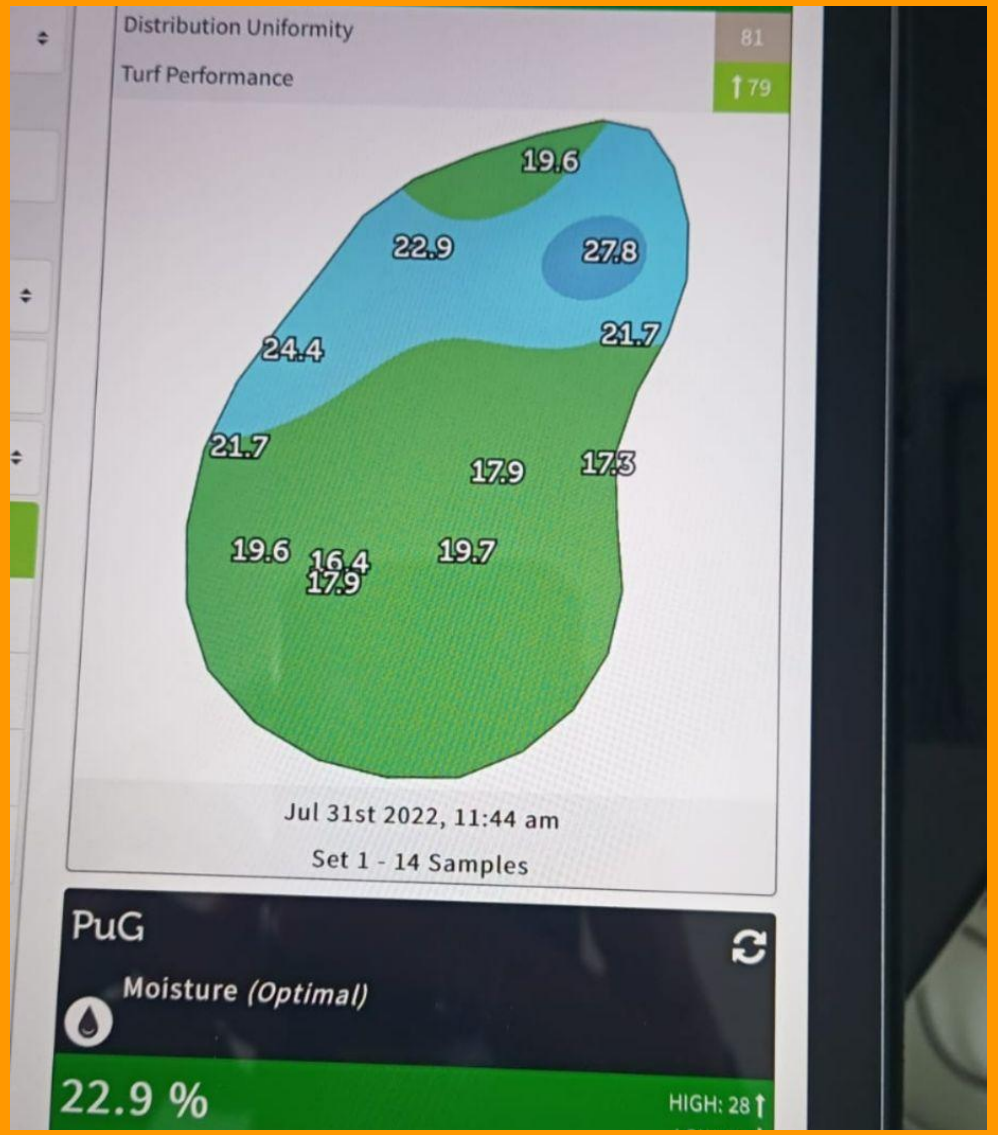
- Started with little knowledge
- Gained valuable information to further my career
- Hands-on experience at the GK
- Day to day operations, importance of golf course setup during a competition

Importance of Irrigation

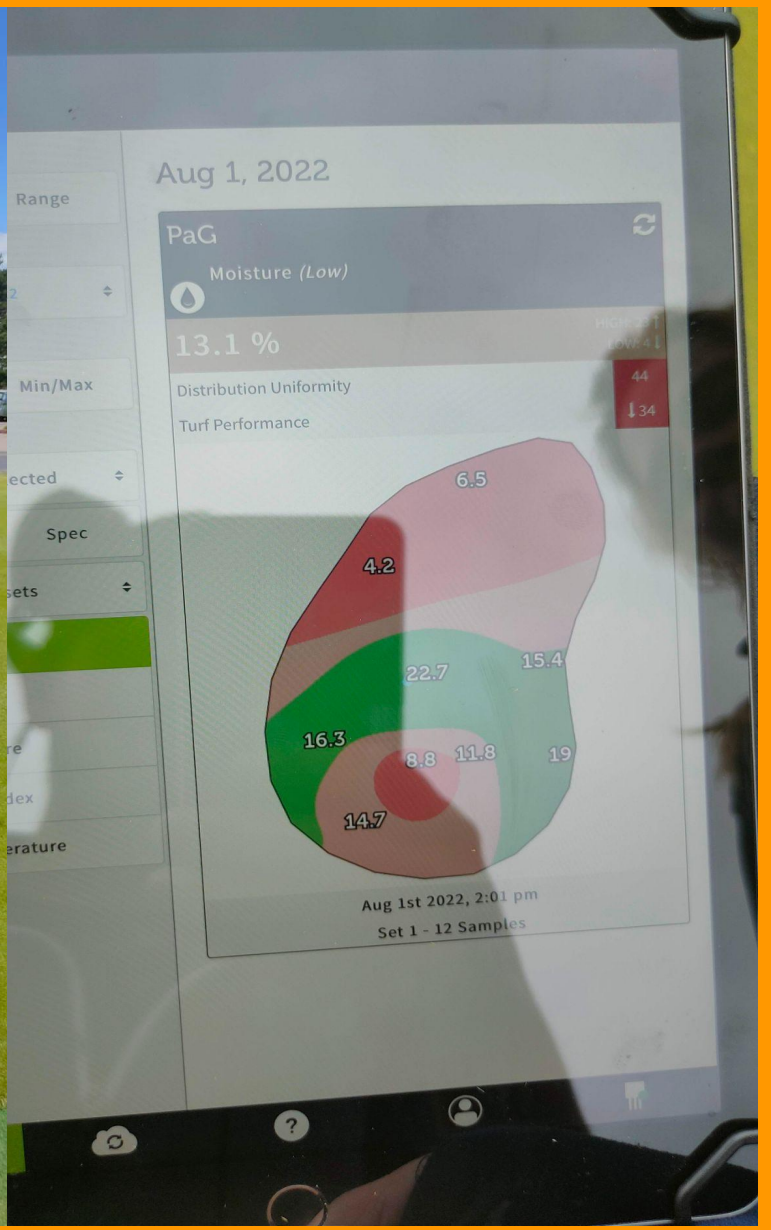
POGO testing everyday

Reduced water usage 8%

Adjust irrigation system




FIELDSCOUT
ON/OFF
BACK
DELETE
33.4 %VWC
0.00 SI
23.6 °C
Rods: TURF 1.5" Count: 019
Soil: STANDARD Average: 27.7 %
MENU
SELECT
READ
TDR 350
Spectrum®
Technologies, Inc.


Range
Min/Max
Spec
Aug 1, 2022
PaG
Moisture (Low)
13.1 %
Distribution Uniformity
Turf Performance
44
34
6.5
4.2
22.7
15.4
16.3
8.8
11.8
19
14.7
Aug 1st 2022, 2:01 pm
Set 1 - 12 Samples

Sustainability projects at KGK

Mikko - Recycling on and around the golf course

Martin - Ecological sites on the golf course and bat roosting boxes

Alex and Helgi - Insect hotels

Josip - Bird and owl roosting boxes

Pepe - Something very special

Ambitions and goals

- Conservation, biodiversity and sustainability importance
- Part of pioneering sustainability
- Assistance to other golf courses
- Help prove golf courses are a sink for biodiversity

Pepe Jimeno

- Spain - Seville

- 2020 - C.E.N.E.C. football pitch maintenance.

- 2021 - EADE, Master in maintenance and management of golf and football fields.

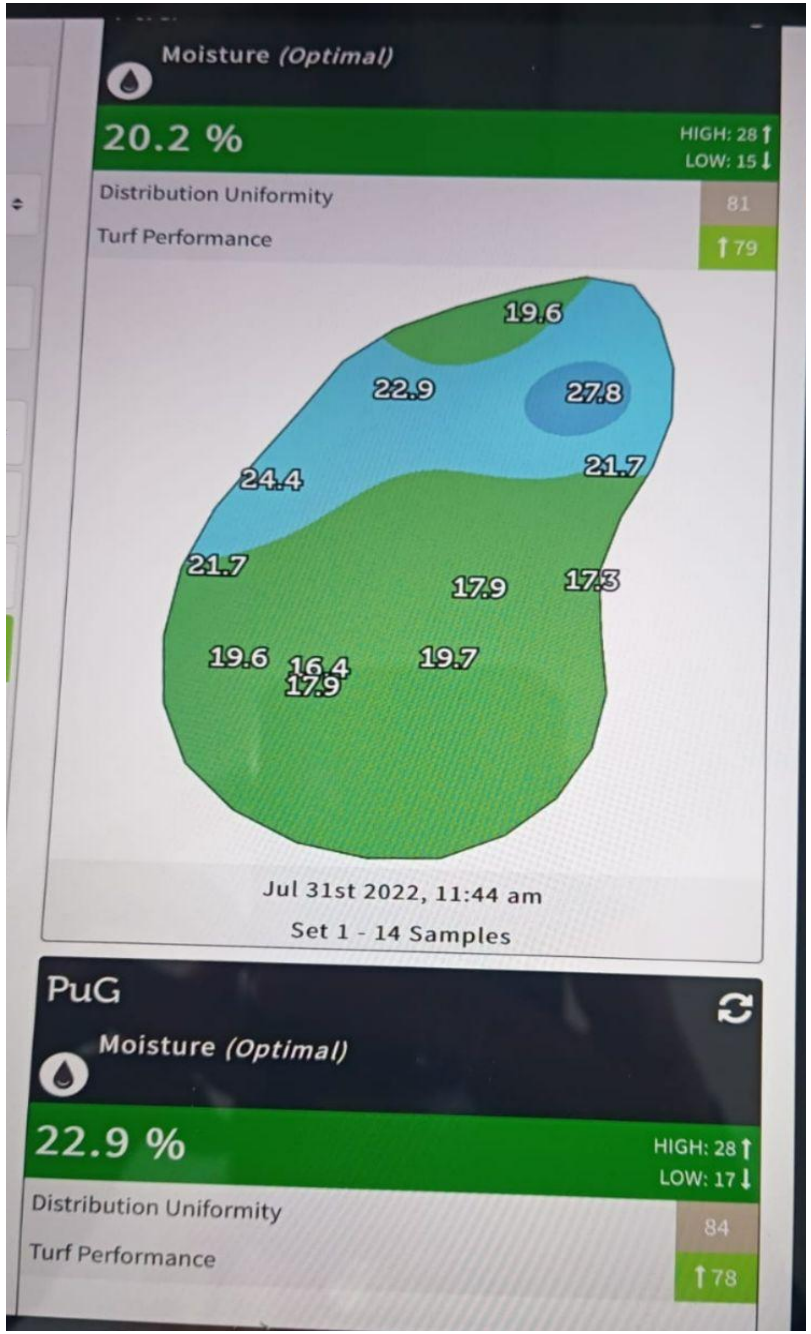
- 2021 - Real Club Pineda, master internship.

- 2022 - FEGGA, Greenkeeping scholarship program hosted by Kristianstad`s golf club.

- Actuality - Head groundsman of Malaga C.F. (Royalverd technic)

FEGGA project:Paddle green

- Main goal: Fastest green in Sweden.
- Second goal: Reduce fert and chemicals and water control.



Paddle green

Focus in 4 parameters:

Frequency, chemicals, irrigation and cutting height.

Cutting height

Weeks	19-25	25-30	30-32	32-33	33-36	36
Cutting height	3 mm	2,5 mm	2 mm	1,9 mm	1,6 mm	3 mm
Average stimp	9,5	12,2	13,2	13,6	15,8	

Svensk Golf

Övningsgreenen utanför Kristianstads GK:s lodge mätte hela 16,5 på stimpmetern under måndagen // Foto: Instagram

Nyheter

16,5 på stimpen – "Är det sant så flyttar jag i morgon"

Skånebanans green snabbast i Europa?

Text: Martin Strömberg • 2022-08-23

Conclusion:

-Stimp record in 16,5.

-No poa annua.

-No fertiliser.

-Less water.

-Fun green for players.

-Social media repercussion.

Greens can be pushed more than greenkeepers think.

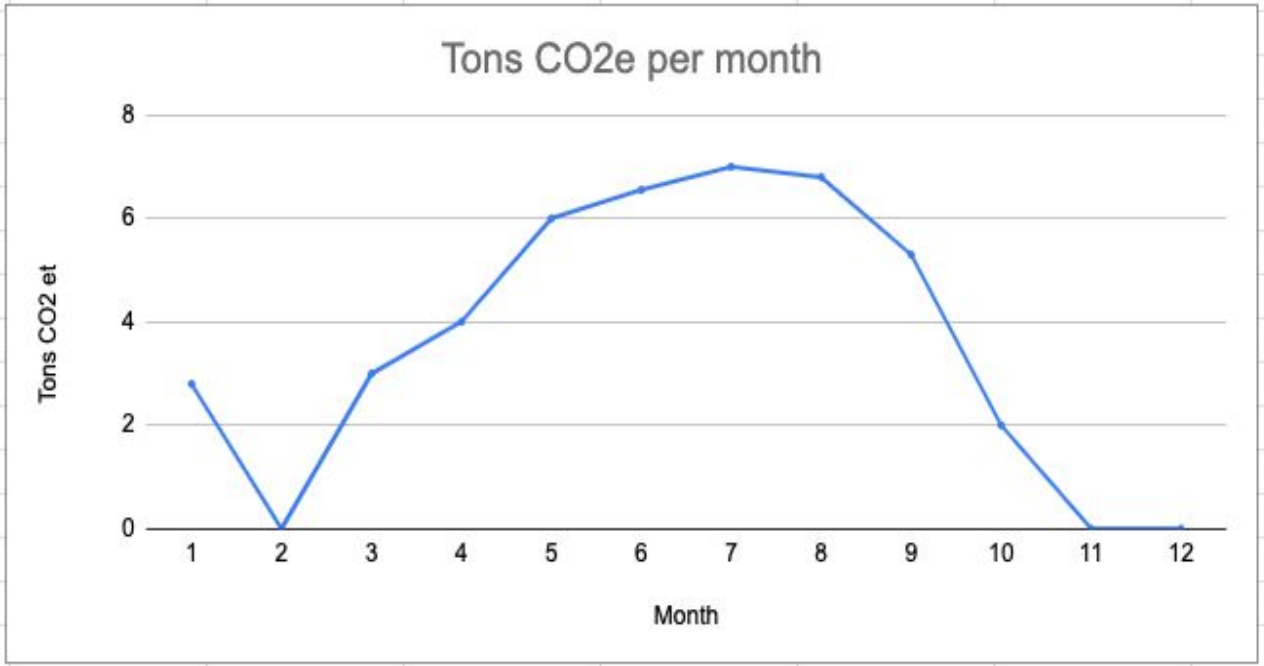
Carbon footprint calculator

Kristianstad golf Club

Zone	ha	Kg CO2e/ha	Kg CO2e/m2
Greens	2.00	802.00	0.08
Foregreens	4.00	0.00	0.00
Tees	2.75	164.80	0.02
Fairways	20.00	147.16	0.01
Rough	15.00	19.41	0.00
Total	43.75	1133.37	0.11

	CO2 emissions in tons						
	Monthly-Total	Monthly-ha	Year-total	Year-ha	Pines Tree	Pines tree/ha	Total seques/ha
Sequestration	3.97	0.09	47.69	1.09	36.00	0.82	1.91
CO2et	6.55	0.15	43.45	0.10			
	-2.57	-0.06	4.24	1.19	40.24	2.01	

Data	
Month	Tons CO2 et
1	2.80
2	0.00
3	3.00
4	4.00
5	6.00
6	6.55
7	7.00
8	6.80
9	5.30
10	2.00
11	0.00
12	0.00
	43.45



	Machine	L avarage	Days working
	55	7.5	30
	6	10	
Green	56	8.5	30
	14-17	2	
	Roll	5	30
	Sprayer	5	2
	1		
	2	15	30
Fairway	3		
	4	13	22
	Roll	18	22
	Semi		8
	Sprayer		
Foregreens	53	10.5	15
	54		
Tees	18-20	2	15
	Semi	22	8
	Sprayer		
	Rough T.	28	4
	Sandpro		

Cleaning lap

	L	kg CO2e
Diesel T	2100	5460
Petrol T	500	1100
	Total	6560

Zone	L	kg CO2e	
Greens	490	1274	Diesel
	150	330	Gasoline
Foregreen	0	0	
Tees	30	66	Diesel
	176	387.2	Gasoline
Farwais	1132	2943.2	
Rough	112	291.2	
Bunkers W.	0	0	
Rest	336	873.6	Diesel
	174	382.8	Gasoline

	Total / Year	
Fert	Kg	kg CO2e
N		0
P		0
K		0

Chemicals		
Herbicide		0
Fungicide		0
Insecticide		0

Total	0	0

	Green	
Fert	Kg	kg CO2e
N	300	2370
P	100	57
K	150	70.5

Chemicals		
Herbicide		0
Fungicide		0
Insecticide		0

Total	550	2497.5

	Foregreen	
Fert	Kg	kg CO2e
N		0
P		0
K		0

Chemicals		
Herbicide		0
Fungicide		0
Insecticide		0

Total	0	0

	Fairways	
Fert	Kg	kg CO2e
N		0
P		0
K		0

Chemicals		
Herbicide		0
Fungicide		0
Insecticide		0

Total	0	0

	Tees	
Fert	Kg	kg CO2e
N		0
P		0
K		0

Chemicals		
Herbicide		0
Fungicide		0
Insecticide		0

Total	0	0

Sand	Tons	Kg CO2e	Kg CO2 Transport	Total e
Total buy	80	3666.4	4160	7826.4

Zone	Tons	CO2e
Green	80	7826.4
Foregreen		0
Fairway		0
Tee		0
Total	80	7826.4

Energy/KW	Kg CO2e
800000	48000

For a normal aeration we can calculate approximately the total sand amount

	Hole distance	Tines distance			
Pro core distance	0.07	0.06	Holes surface	0.0042	m2
Diameter	12	Radio	Total holes	4,761,904.76	
Deep	0.1	0.006			
Cilinder area	0.000113097312	m2			
Volumen	0.000011309731	m3			
Total sand	53.85586286	m3			

Future ambitions

-Head groundsman of Real Betis C.F.

-Technician of half Andalucia.

-International interventions.

Questions