

30 May - 1 June 2023

**Sustainable Greenkeeping Conference**  
**Meeting Danes, Dutch, Germans and Swedes**

Flip Wirth

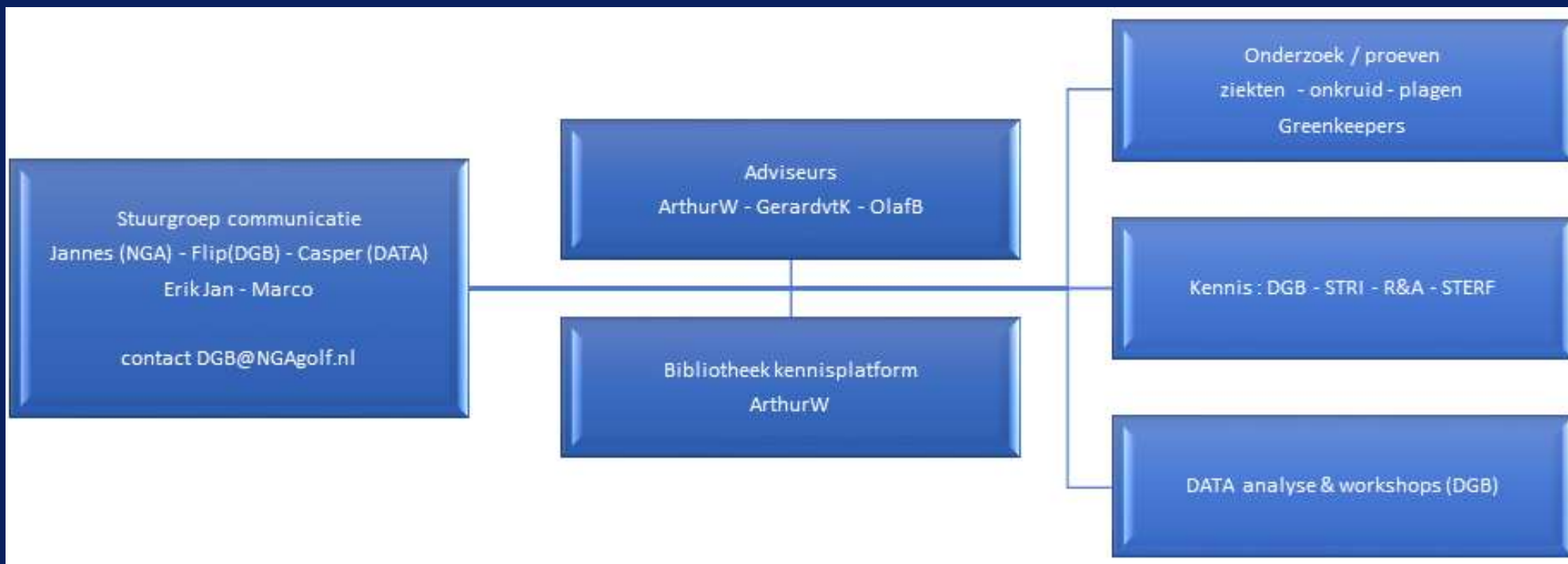


## DGB 17 YEARS at WORK



- DGB has grown to an active group of 23 members
- We have a state of the art database and website
- DGB provides in the need for exchange of knowledge and sharing information
- Frequent contacts by gatherings and several Whatsapp groups
- Several members are running trials supported by members of the DGB NGA platform
- However: a greenkeeper is not a scientist and therefore DGB will provide support to the willing greenkeeper

- Plan all work based on data collected
- Skip unnecessary work
- Reduce number of maintained ha's
- Reduce water consumption and fertilizer use
- Do not use pesticides or herbicides
- Reduce costs/hours maintaining the golf course
- Reduce fuel consumption
- Reduce use of electricity



- Weed reduction trial in fairways GC Princenbosch
- Group DGB meteorologists with 6 systems operational end 2021
- Wetting agents trials (3 golf courses)
- Grass clippings volume group from 2022
- Grubs and leatherjackets investigation 2023??
- National research programme on dollarspot and microdochium following start 2020 and shadow group of 12 DGB courses

- GC Princenbosch start 2019
- 108 plots (3 x 36 )
- The weeds are counted 4 times a year
- We measure the moisture
- We measure DCI
- First evaluation end 2022
- New phase with mechanical removal of weeds and overseeding from 2023



# Wetting Agents trials

- Participating courses GC Hoge Kleij (Amersfoort); GC The Links Valley (Nunspeet) GC 't Zelle (Hengelo GLD)
- Trials after 3 years no spectacular results.
- To be continued of a plot that can be left unirrigated
- Approx 6 – 7 visits per year
- Moisture 8 and 12 cm deep and NDVI

# Trial Set-up

- Each plot repeated three times
- Moisture too much dominated by irrigation
- Will continue in better suitable plots

A1 Untreated	A2 Aquifer	A6 Aqua Premium
A4 Oars Hs	A5 Trismart H2Pro	A3 Revolution
A6a Aqua Premium	A1a Untreated	A3a Revolution
A4a Oars Hs	A2a Aquifer	A5a Trismart H2Pro
A2b Aquifer	A4b Oars Hs	A6b Aqua Premium
A3b Revolution	A1b Untreated	A5b Trismart H2Pro

Suitschema	Week nummer schema	Frequentie
<b>A1 Untreated</b>		
A2 Aquifer	18/22/26/30/34	elke 4 weken
A3 Revolution	18/22/26/30/34	elke 4 weken
A4 Oars Hs	18/24/30/36	elke 6 weken
A5 Trismart H2Pro	18/22/26/30/34	elke 4 weken
A6 Aqua Premium	18/22/26/30/34	elke 4 weken
A PBS150 Granulaat	rondom de proef strooien	1 x



- Pending funding by NGF
- Start in 2024 on GC Papendal and GC 't Zelle
- Serious problems in 2022 on several golfcourses
- Trials on tees, fairways and aprons
- Developing set of best practices
- Investigation of impact of hardness of soil
- Using modern detection techniques s.a. drone observation for better prediction



# Questions?

