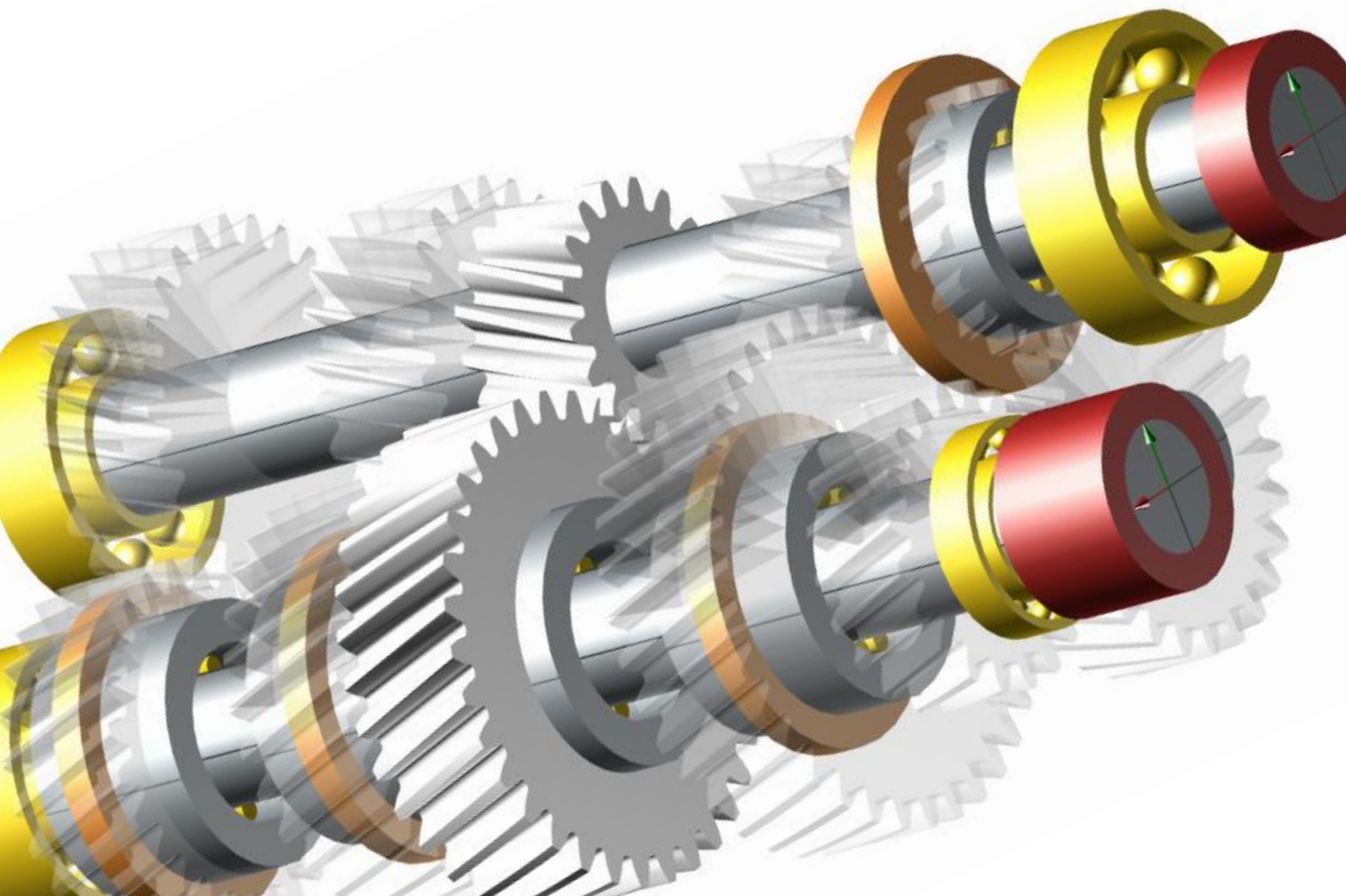Drivetrain Design Solutions **KISSsoft**

KISSsys Live Stream Training

Special: Model Customization

March 31, 2022

Sharing Knowledge

The below schedule is shown in time zone CET 02:00 pm – 06:00 pm (Brussels)

Session 1:   March 31, 2022

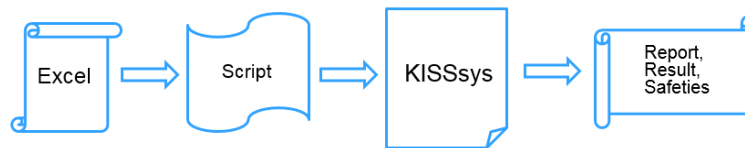|	
2:00 – 2:10 pm	Welcome and introduction
2:10 – 3:40 pm	Use of existing tables, writing of useful functions 1
3:40 – 3:55 pm	Break
3:55 – 6:00 pm	Writing of useful functions 2
Exercises	**Programing of functions in KISSsys**

Predefined Tables in KISSsys Templates

- Showing entered values and results for gears, bearings and shafts in an overview
- Modifying and extending existing tables
- Creation of new interfaces

Programming using Script Language ClassCad

- Basic terminology
- Import a file and fill up variables
- Export of user defined results
- Practicing with useful examples

Running KISSsys without GUI

- Running KISSsys in batch mode
- Controlling of the model with a script file
- Automatic generation of results for different configurations

K		Settings			
	A	B	C	D	E
1	LUBRICATION		Status	Connect all variables	Disconnect all variables
2	Lubricant	Öl: ISO-VG 100	Disconnected	Connect	Disconnect
3	Lubrication method (for gears)	Oil bath lubrication	Disconnected	Connect	Disconnect
4	Lubricant temperature [°C]	70	Disconnected	Connect	Disconnect
5	Impurity	ion with filtration, ISO 4406 -/13/10, beta6=200	Disconnected	Connect	Disconnect
6					
7	MATERIALS				
8	Gears	C45 (1)	Disconnected	Connect	Disconnect
9	Shafts	C45 (1)	Disconnected	Connect	Disconnect
10	Housing	C45 (1)	Disconnected	Connect	Disconnect
11					
12	RATING				
13	System required service life [h]	2000	Disconnected	Connect	Disconnect
14	System required reliability [%]	99	Disconnected	Connect	Disconnect
15	Application factor KA	1.25	Disconnected	Connect	Disconnect
16	Face load factor KHb	Calculation according calculation method	Disconnected	Connect	Disconnect
17					
18	CALCULATION METHODS				
19	Helical gears	ISO 6336:2006 Methode B	Disconnected	Connect	Disconnect
20	Bevel gears	Kegelräder ISO 10300:2001, Methode B	Disconnected	Connect	Disconnect
21	Worm gears	ISO/TR 14521:2010	Disconnected	Connect	Disconnect
22	Crossed helical gears	ISO 6336:2006 und G.Niemann, Methode B/C	Disconnected	Connect	Disconnect
23	Face gears	Methode ISO 6336:2006-B/ Literatur	Disconnected	Connect	Disconnect
24	Shafts	DIN 743:2012	Disconnected	Connect	Disconnect
25	Bearings	: Rolling bearings service life, classical calculation	Disconnected	Connect	Disconnect
26	Modified rathing life according ISO 281	No	Disconnected	Connect	Disconnect