



LOUHINTA- JA KALLIOTEKNIKANPÄIVÄT 17. - 18.1.2019

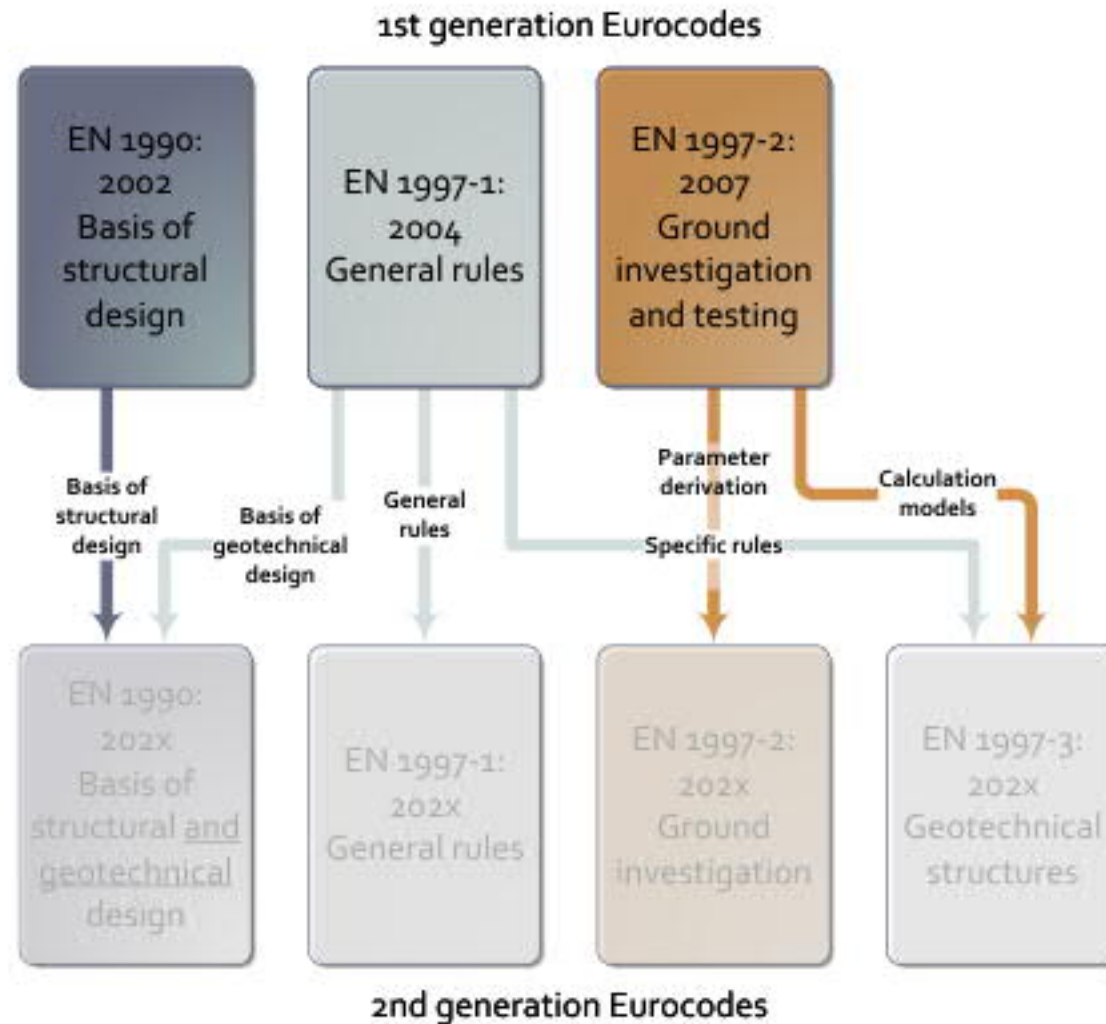
Eurocode 7 - Geotechnics

Guido Nuijten
19.1.2019



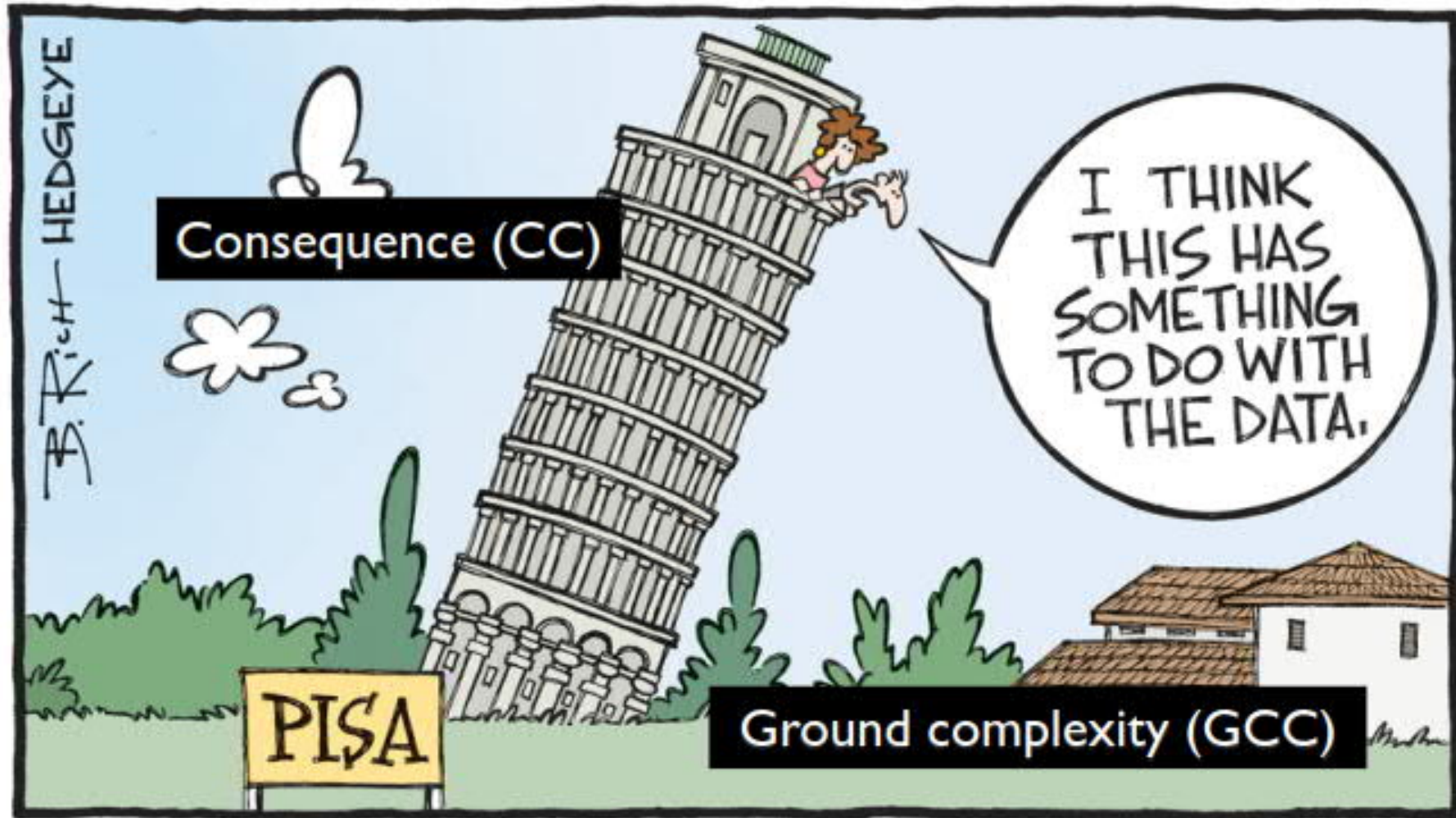
2nd generation of Eurocode 7

Transformation of Eurocode 7 into 3 parts



2nd generation of Eurocode 7

Separation of consequence and complexity



2nd generation of Eurocode 7

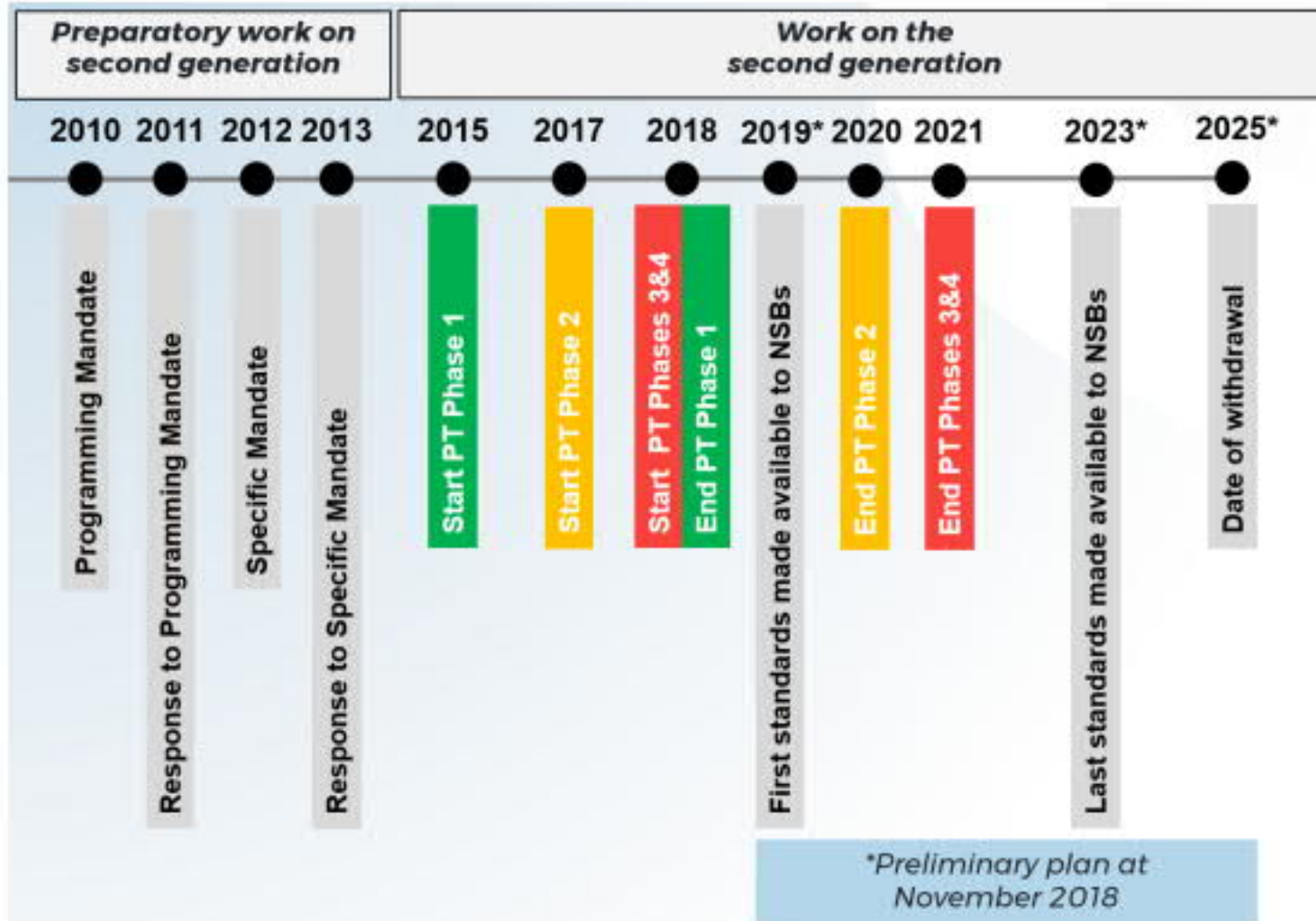
'New' Geotechnical Category = CC x GCC

Consequence Class (CC)	Geotechnical Complexity Class (GCC)		
	Lower (GCC1)	Normal (GCC2)	Higher (GCC3)
High (CC3)			GC3
Medium (CC2)		GC2	
Low (CC1)	GCI		

The Geotechnical Category determines:

- ▶ minimum amount of ground investigation
- ▶ minimum validation of calculation models
- ▶ minimum checking of design (EN 1990's *Design Check Levels*)
- ▶ minimum checking of execution (EN 1990's *Inspection Levels*)
- ▶ minimum control of execution (*Execution Classes*)
- ▶ minimum amount of monitoring
- ▶ minimum design qualification and experience levels (EN 1990's *Designer Qualification Levels*)

Timetable for delivery of 2nd generation Eurocodes





Technical Steering



Contract obligations



Commenting / Supporting

European Commission
Directorate General

CEN: Comité
Européen de
Normalisation

Technical
Committee TC250

SC8...11

SC1...6

Subcommittee
SC7

management
group

NSB = national
standard
bodies

NEN = contract
owner / client

PT6

5 members:
S. Burlon (Fr)
G. Franzén (S)
J. Estaire (Esp)
G. Scarpelli (It)
G. Nuijten

representative's
companies/institutes
like Pöyry

mirror groups,
e.g. NMGEC7

SC7
WG3

SC7
WG2

SC7
WG1

WG3
TG's

WG2
TG's

WG1
TG's

TG3
= rock

PT1...5
all end earlier

