

Public procurement changes the game

The client/society that pays decides

“Reducing CO2 by half, in concrete” webinars 15/17-12-2020

Boudewijn M. Piscaer

Pantheon Performance Foundation

NEXT GENERATION CONCRETE

SUSTCON
EPV

SUSTAINABLE
CONCRETE
ENVIRONMENT
PERFORMANCE
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Key Facts

- 1/3rd of construction is taxpayers money.
 - Increasing demand on infrastructure ADAPTATION.
 - Sustainable structures are at **lower cost**
- € 1 invested in **design & execution** =
€ 5 preventive maintenance =
€ 25 local repair =
€ 125 replacement (Prof. R.W. De Sitter)

*5 year old EN 206 standardized
concrete, low competence,
supplier driven. (REPAIR!)*



*Almost 2000 year old concrete,
no standards, high competence*



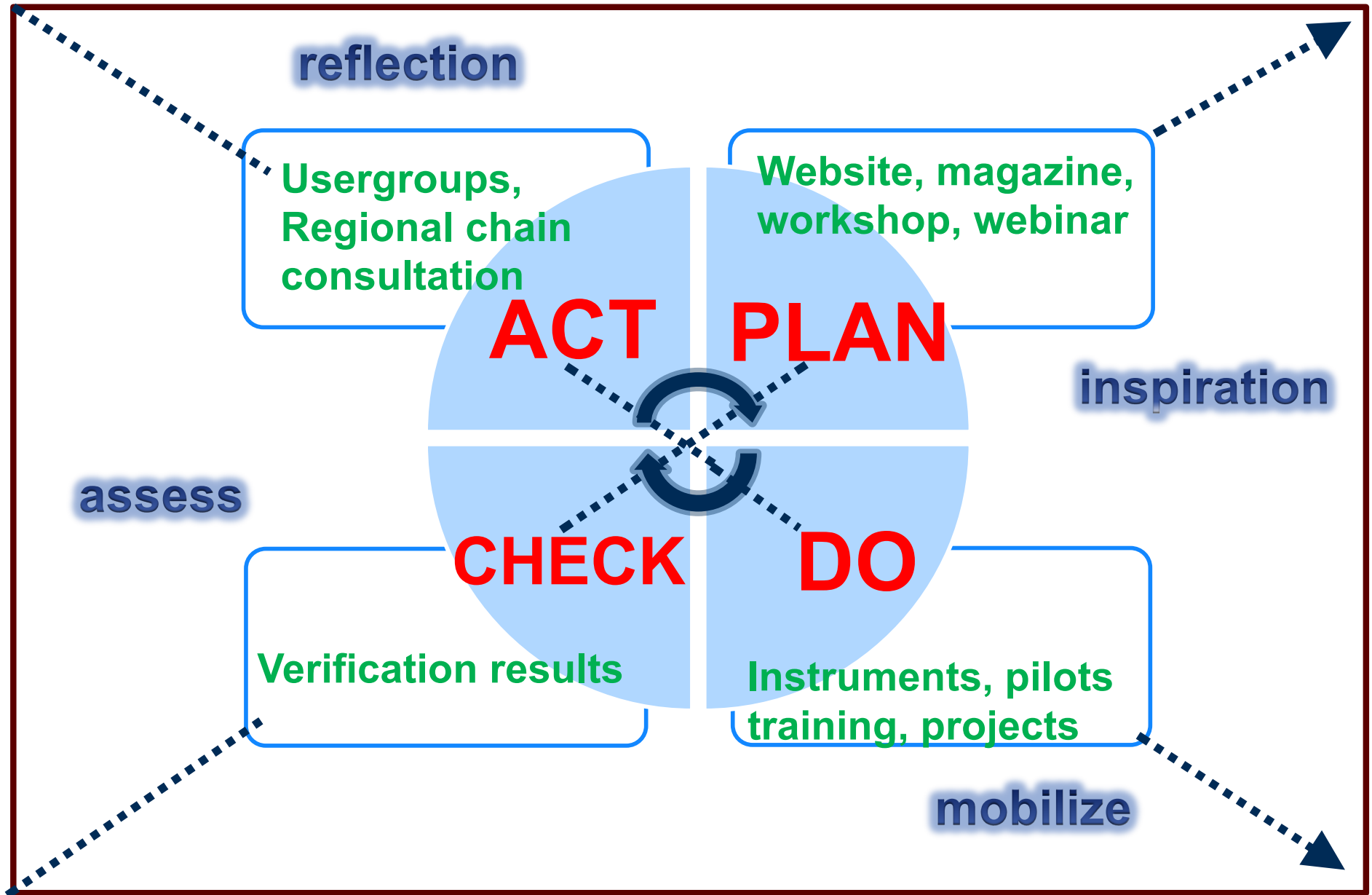
Problems

- ◆ Most clients do not (have to) know technicalities of concrete and rely on **material neutral designers**
- ◆ **Designers** expect **suppliers** to know what they have delivered. Are both parties well informed?
- ◆ Premature failures;
 - < 20 % material composition,
 - ± 30 % mistakes in structural design
 - > 50 % execution on site! PRACTICE 17-12
- ◆ Standards are prescriptive, not PERFORMANCE based and set by dominant cement and aggregate suppliers.

What can we ask the EC

- I. Transform Ursula von der Weyen's idea for a **"European Bauhaus"** (14 -10) into an inter DC sustainable "construction" **PLAN**
- II. Correct environmental unfriendly standards
- III. Recognize CO2 reduction potential in concrete and facilitate changes.

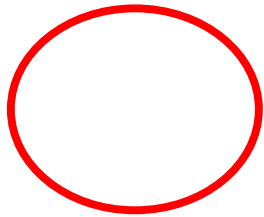
100% Circularity



CO2 Reduction



CONCRETE



ASPHALT

