



## **Contents**

- What is new in EC7
- Attributes of a new design code
- Some perceptions of EC7
- ULS in EC7 and before
- Use of EC7

## What has changed?

- Much of EC7 is little different from previous practice, e.g.:
  - SLS calculations with partial factors unity
  - SI practice
- The main change is in ULS design:
  - Formalises definition of ULS
  - Terminology: action, effect, resistance
  - Use of partial factors























## Comparison of Global and Partial Safety Factor Methods

- Global safety factors are simpler, and therefore easier to get a feel for
  - For any particular problem and depending on how they are defined
- Partial factors allow better assessment of uncertainty (variation?) of real physical factors (e.g. Variable loadings, material strengths)
  - But how do the code factors relate to real variation?
    Have they just been chosen to fit previous codes?
- Thinking about partial factors has enabled better identification of inconsistencies in previous practice







- John Atkinson
  - for Coffey training in EC7 and for many useful discussions
- Colleagues at Coffey
  - for sitting through two rehearsals