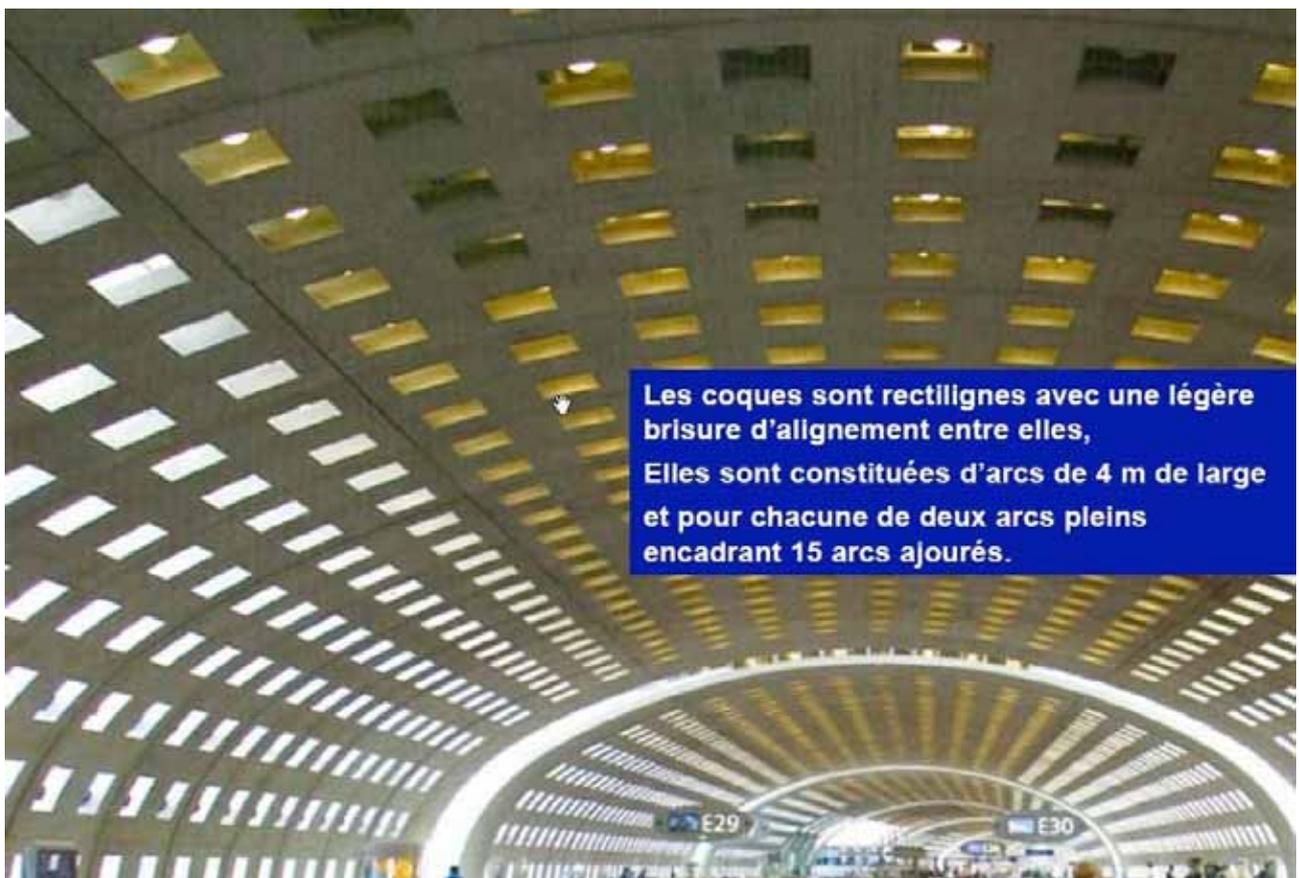


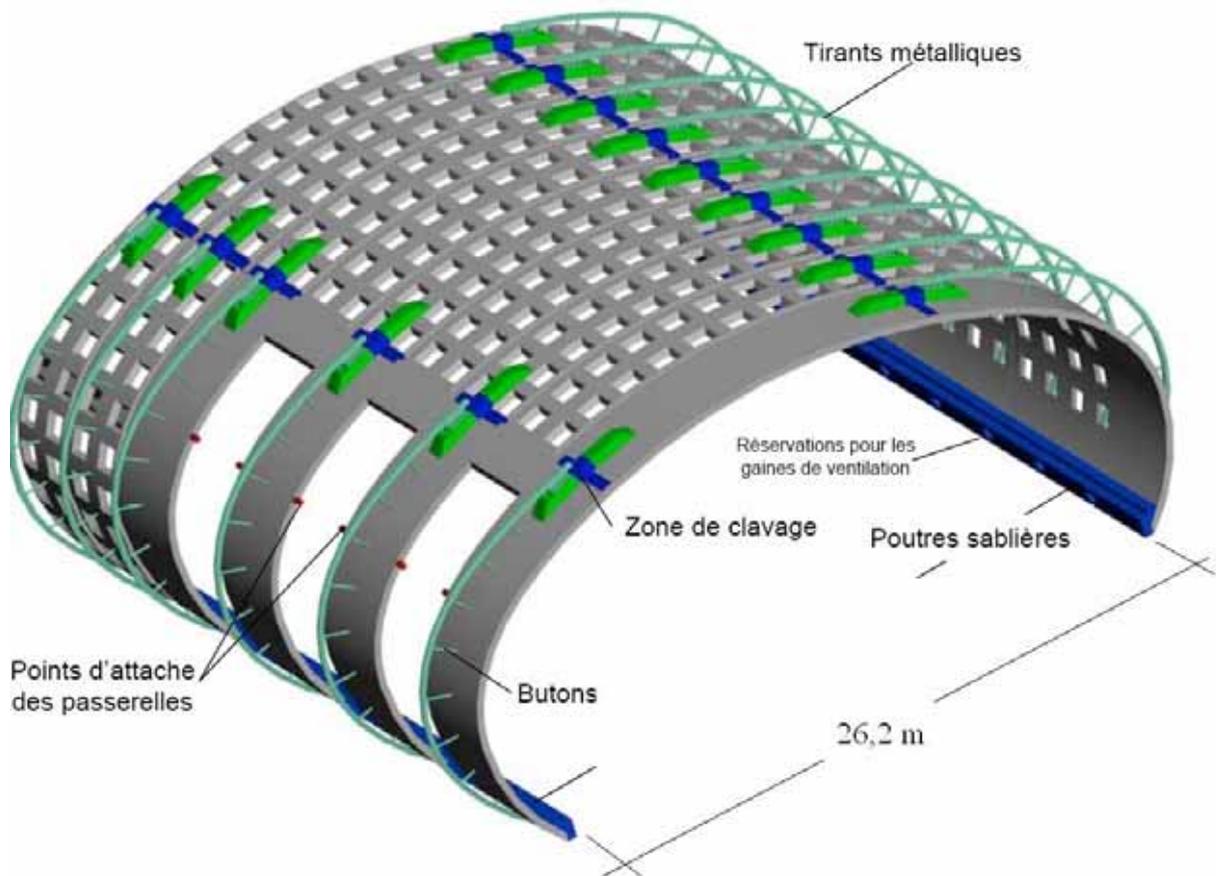
# Paris Airport Terminal, 05-2004



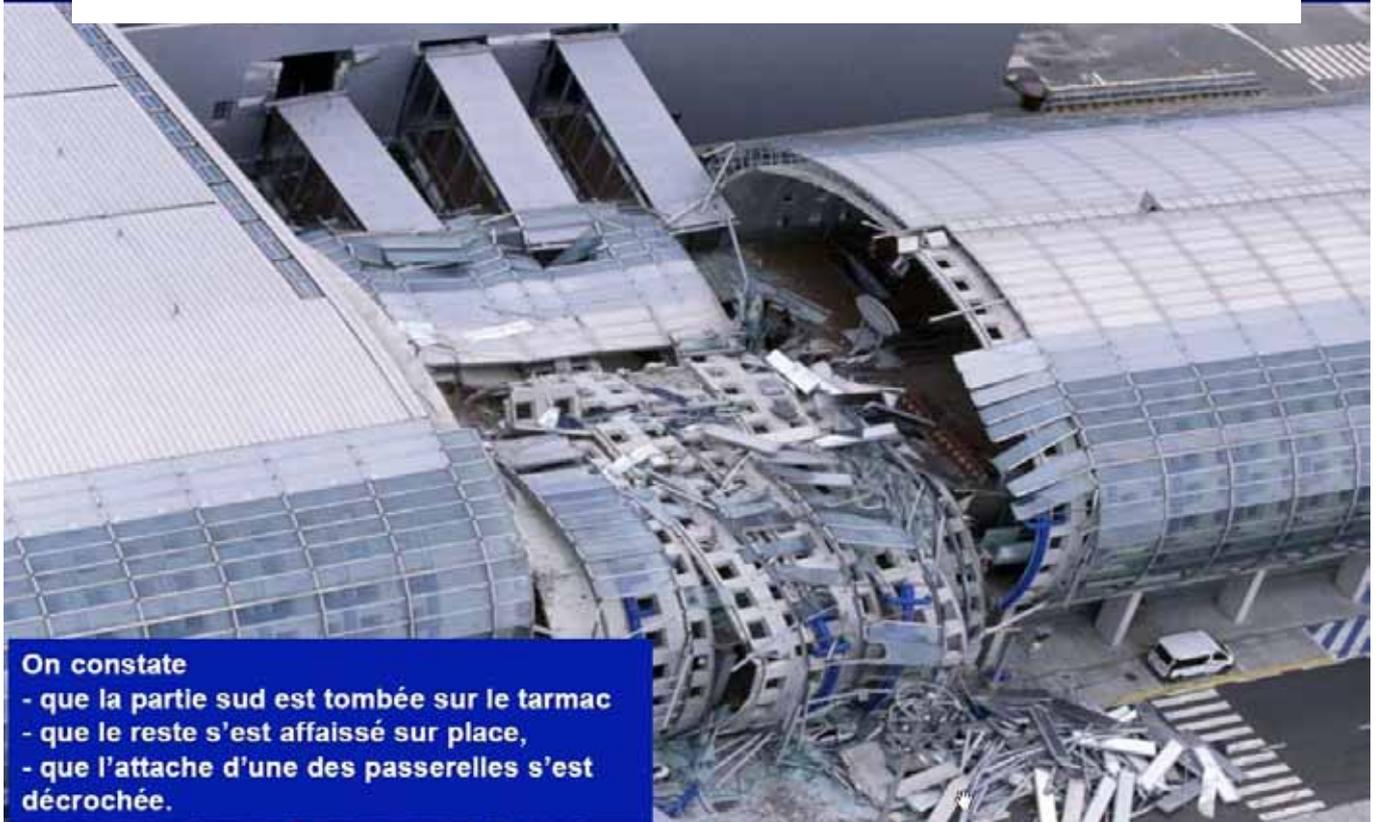
## Internal view



# Structural system



## Failure zone



# Failure zone



## Cracks of the outer surface of the shell

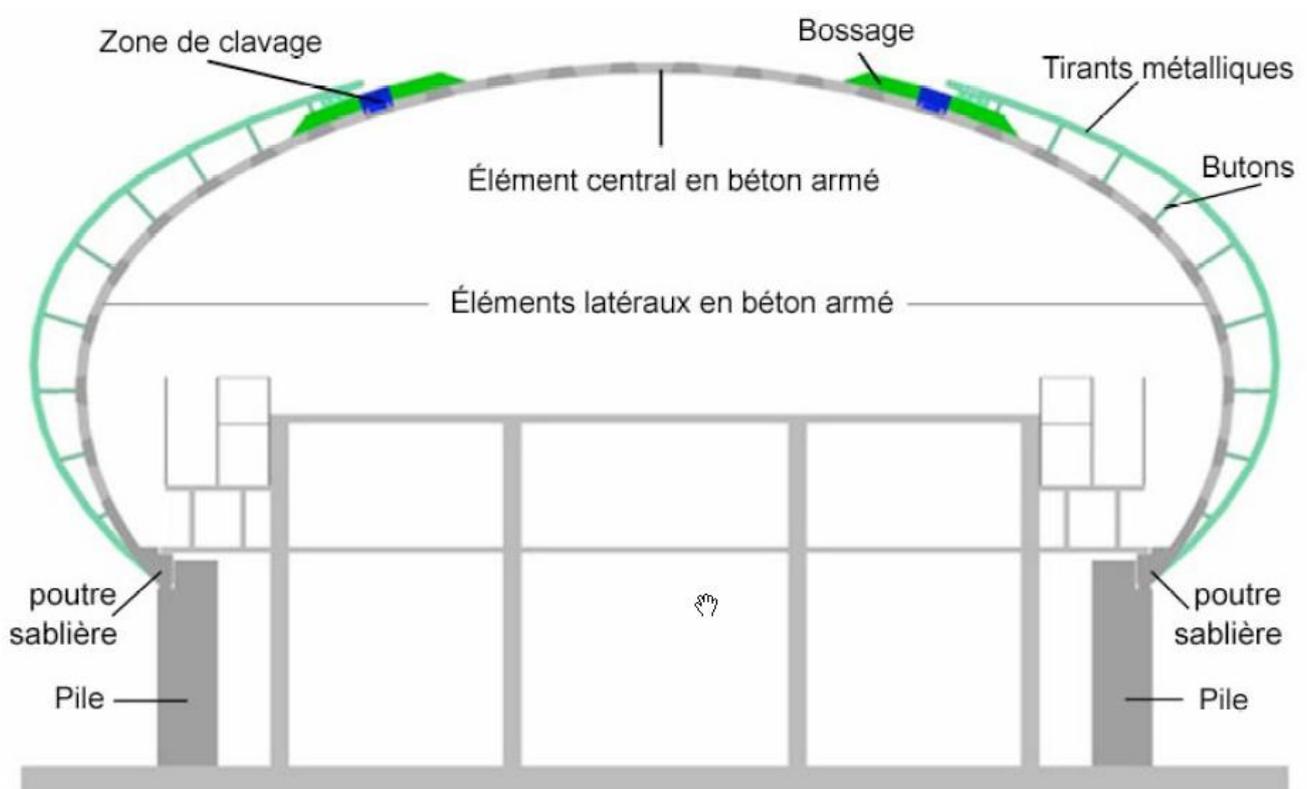


# Rupture of concrete shell

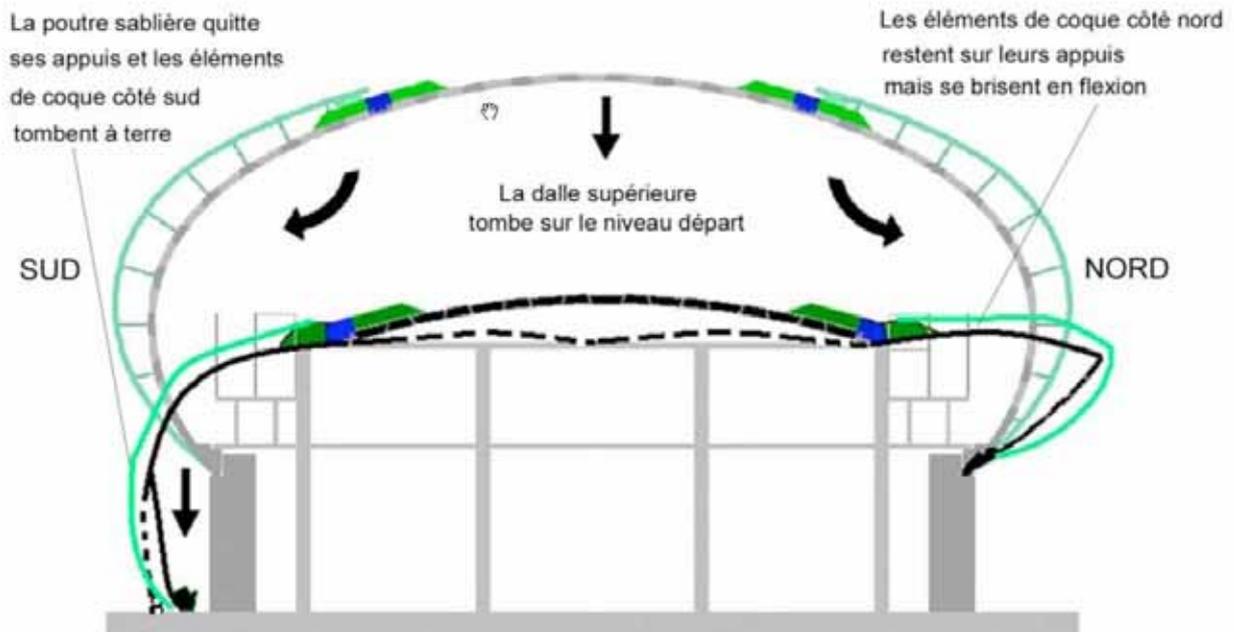
## Détail de la surface de rupture



## Transverse section



# Scheme of the collapse



## Causes of collapse

Low initial reserve of strength and progressive weakening due to cracking during construction and cycles of stress from differential thermal and moisture movements between concrete shell and curved steel member and struts

The main factors leading to collapse

- the high flexibility was increased by cracking
- a lack of robustness and redundancy
- the high local punching stresses
- weakness of the longitudinal support beam and its horizontal ties to the columns