

An aerial photograph of a city street, likely in a coastal area, showing buildings, a road, and a waterfront. The image is used as a background for the title slide.

Deflektionsmätningens historik och nuvarande status

Peter Andrén

vti

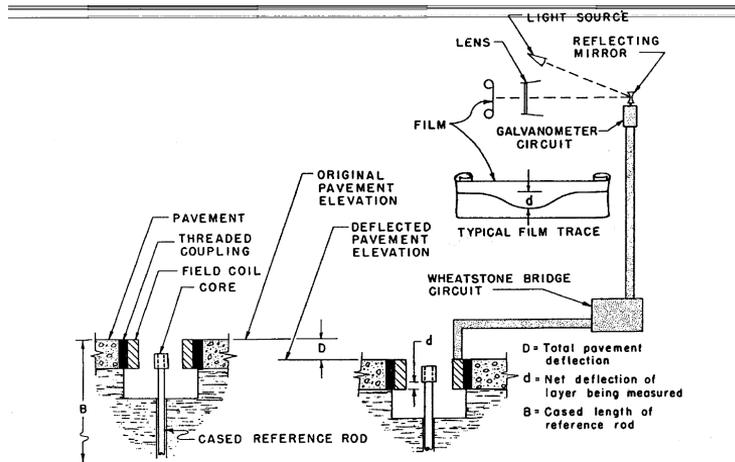
Kommer inte att prata om ...

- Fallvikt
- Plattbelastning
- Vibrationsbelastning
- Accelerometer e.d.
- Borrkärnor (med triax)



General Electric travel gauge

- Använd sedan 1938 i Kalifornien
- Fast installation av mätklocka



Benkelmanbalken

- WASHO och AASHO-försöken

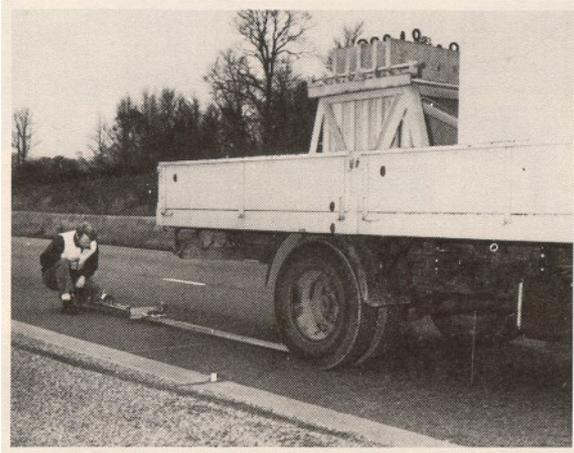


Foto Louis Lo, Unsplash

VCI

California Traveling Deflectograph

- Använd 1955-1969
- Bara en byggd



Lacroix-mätare

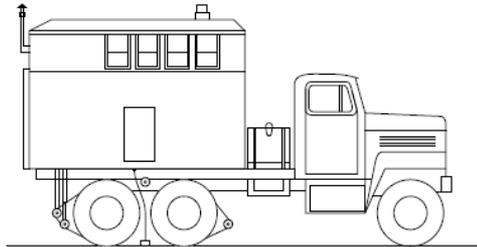
- Många modeller
- 1956-nutid



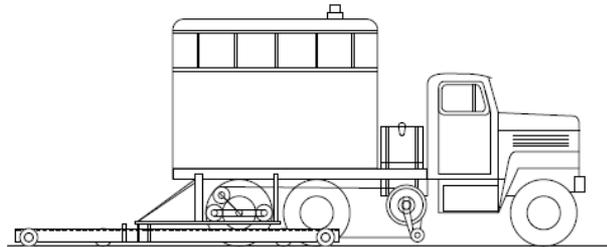
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Lacroix-varianter

- British Pavement Deflection Data Logging Equipment
- Danish Deflectographs “Grasshopper”
- Deflectolab och Pavement Strength Evaluator (Aust.)
- Sovjetiska UNK-system
- med flera ...



(a) YHK-2.



(b) YHK-4.

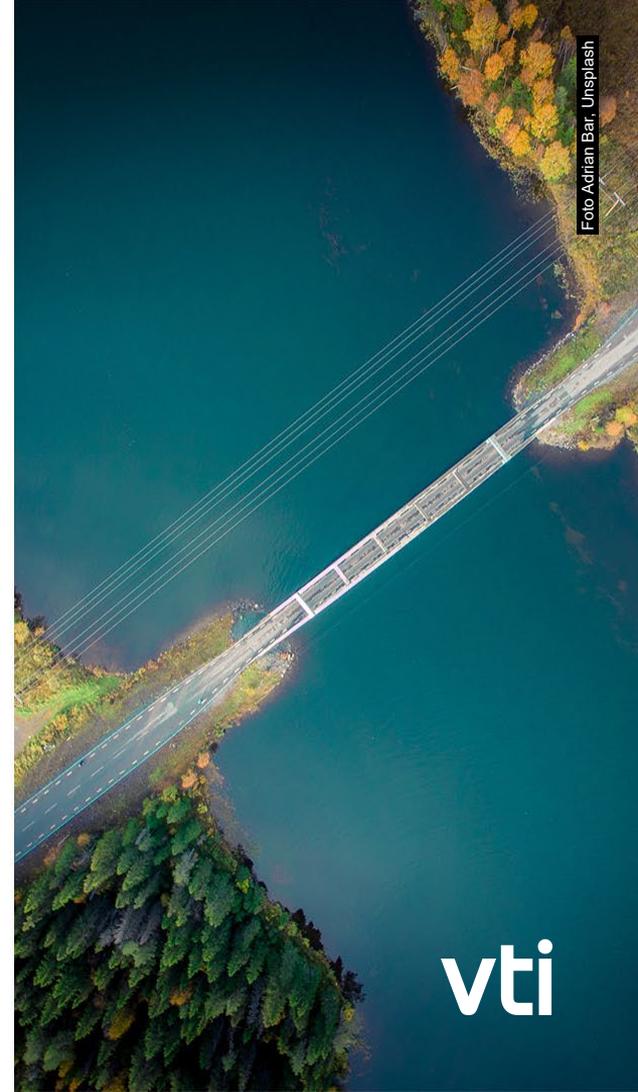


Foto Adrian Bar, Unsplash

Curviamètre

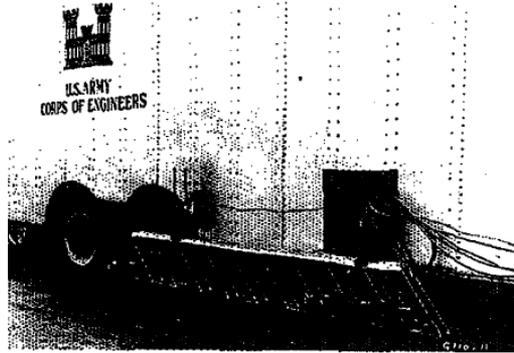
- Accelerometer eller geofon på slinga



Foto Louis Lo, Unsplash

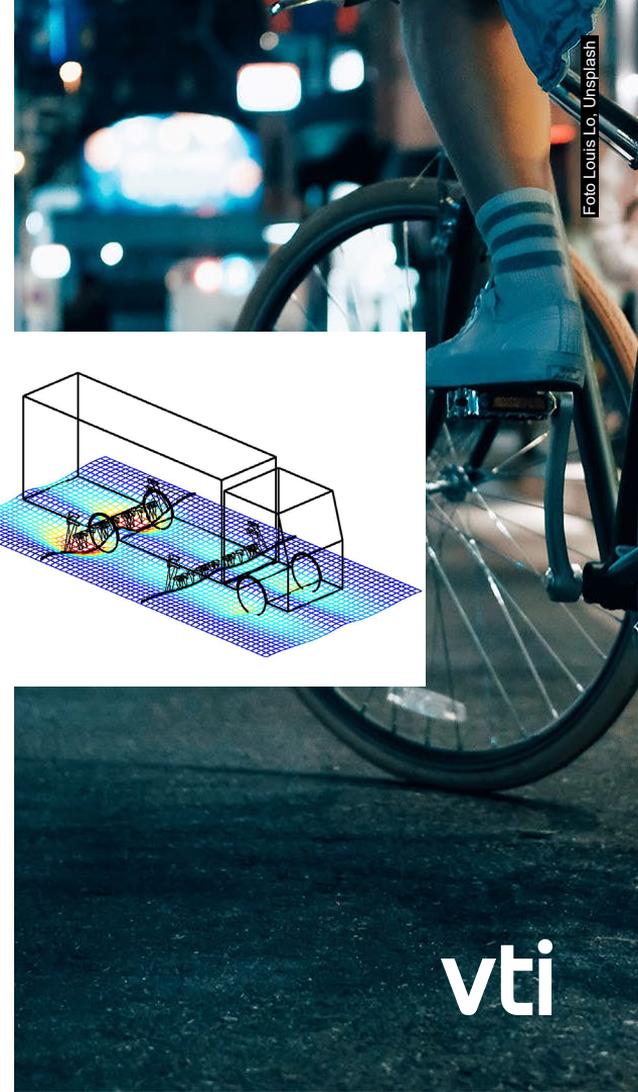
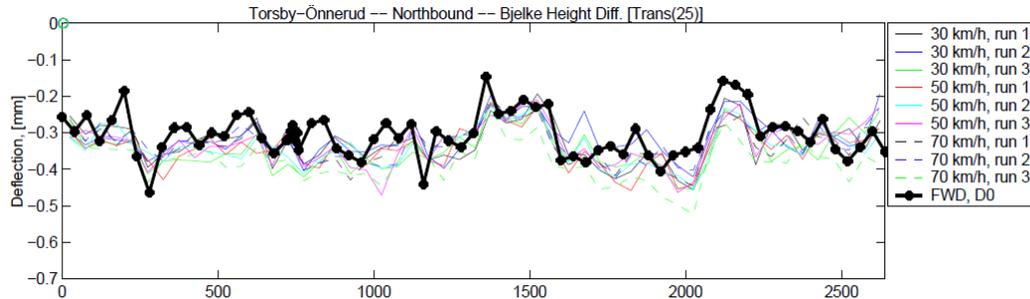
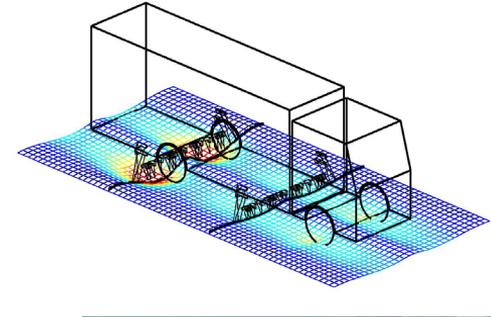
Laserbased system (i USA)

- Purdue Deflectograph (1982)
- Rolling Weight Deflectometer
- Rolling Wheel Deflectometer
- (Rolling Load Deflectometer)



Road Deflection Tester (RDT)

- Sverige / VTI (1985-2006)



Traffic Speed Deflectograph

- Sedan cirka 2000
- 4 generationer
- 21 fordon
- Dopplerlasrar
- Litteraturgenomgång på gång



TSD 1: Danish Road Directorate
Denmark



TSD 2: Highways Agencies
United Kingdom



TSD 3: ANAS
Italy



TSD 4: IBDIM
Poland



TSD 5: SANRAL
South Africa



TSD 6: RIOH
China



TSD 7: Greenwood Engineering
Denmark



TSD 8: ARRB
Australia



TSD 9: ARRB Systems
United States of America



TSD 10: VNA
South Africa



TSD 11: RAB Shanghai
China



TSD 12: ARRB
Australia



TSD 14: BAST
Germany



TSD 15: University of Wuppertal
Germany



TSD 16: Highways England
United Kingdom



TSD 17: ARRB Systems
United States of America



TSD 18: ARRB Systems
South Africa



TSD 19: Autostrade per l'Italia
Italy



TSD 21: ARRB
Australia

Rapid Pavement Tester (RAPTOR)

- Dynatest 2015 fungerande prototyp
- Ägs av Ramboll sedan ~2020

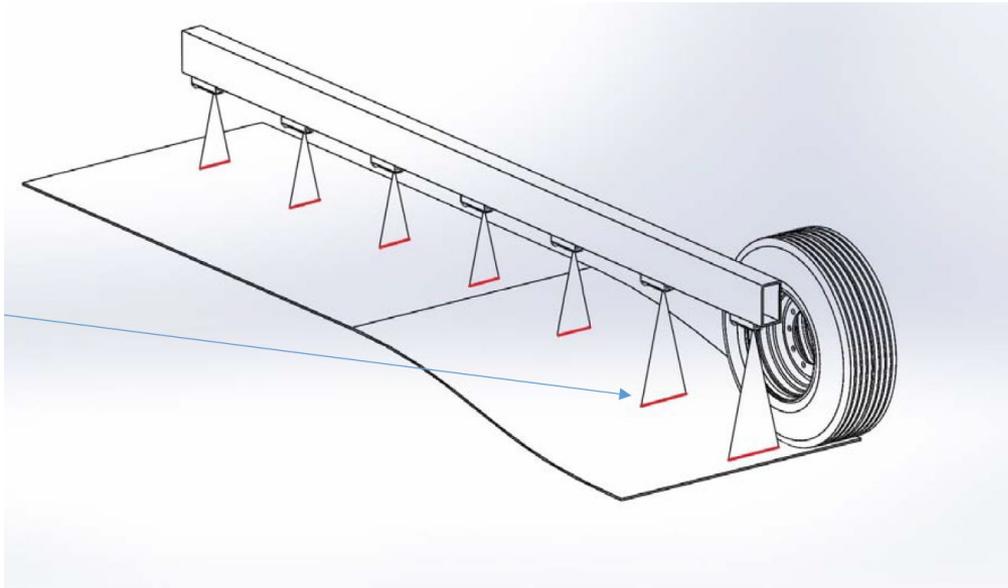


Foto Louis Lo, Unsplash