

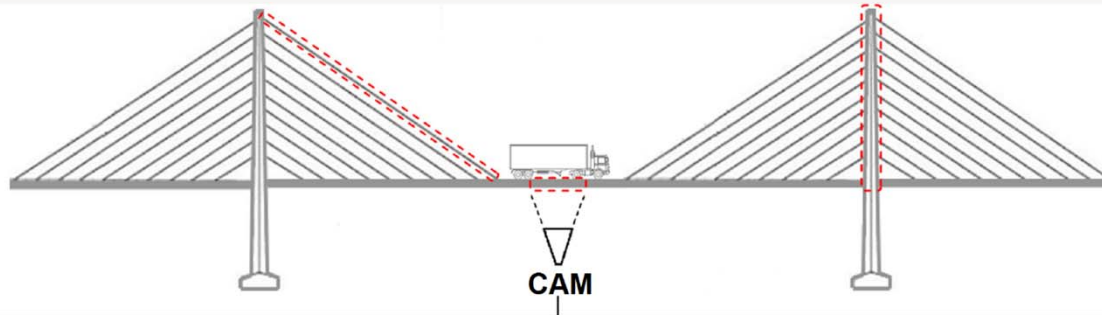


Bridge Asset Management using Digital Image Correlation (DIC)

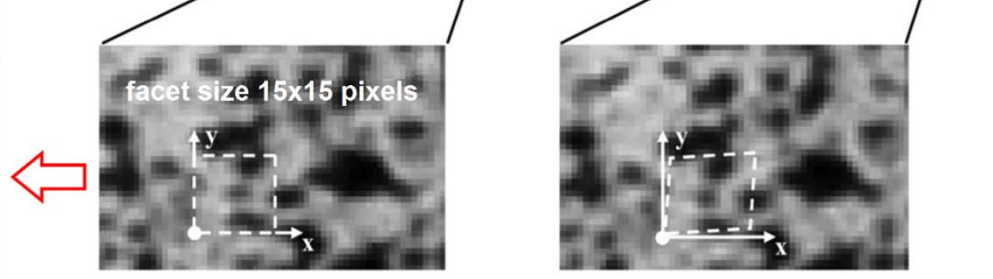
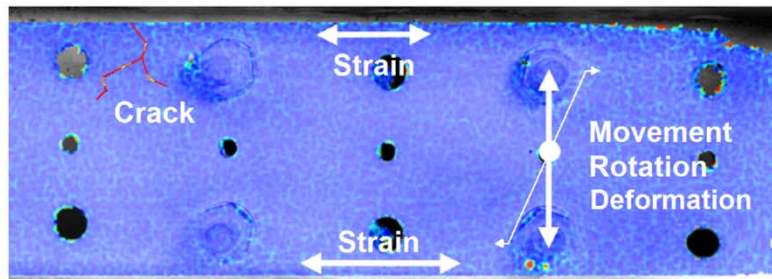
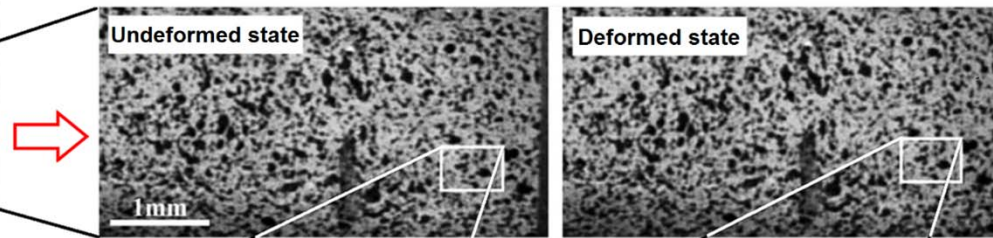
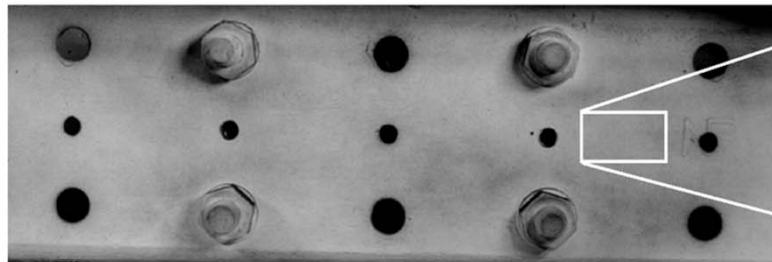
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*Jan Winkler, PhD
Chief Specialist, DIC Team Leader*

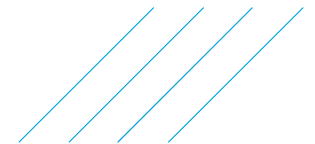
Digital Image Correlation - DIC



4 year Atkins
R&D project



DIC



DIC YouTube VIDEO = 6 years in 6 minutes



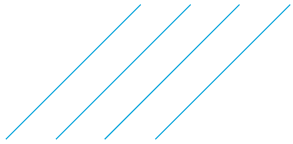
Search <https://www.youtube.com/watch?v=JJoKjwLgdHY>



Improved Asset Management using
Digital Image Correlation

0:03 / 6:18

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Industry leader in vision-based SHM:



International Research Collaboration:



Atkins thought leadership & DIC portfolio:

- 25 monitoring projects + 20 scientific papers

Atkins SNCL in-house expertise:

- Software, Hardware, Team of specialists

Cross border team:

- Copenhagen / Malmö (Scandinavia)
- Bristol / London (UK)
- Cork (Ireland)



Why Digital Image Correlation?

- **Avoid unnecessary and costly strengthening**
- **Extend the service life** of infrastructure (massive savings of public funds)
- **Avoid traffic disruption** (closures and working at height)
- **More transport service** for the same carbon footprint
- **Optimise the use of transportation infrastructure** via DIC





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