

Technical Exchange Overview

Use of Bitumen Emulsion in France

International Bitumen Emulsion Federation

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Jan 30th, 2021



Rugby in France



81'30''

March 20th, 2021

FRANCE 32 – WALES 30

Jan 30th, 2021

Use of bitumen emulsion in France

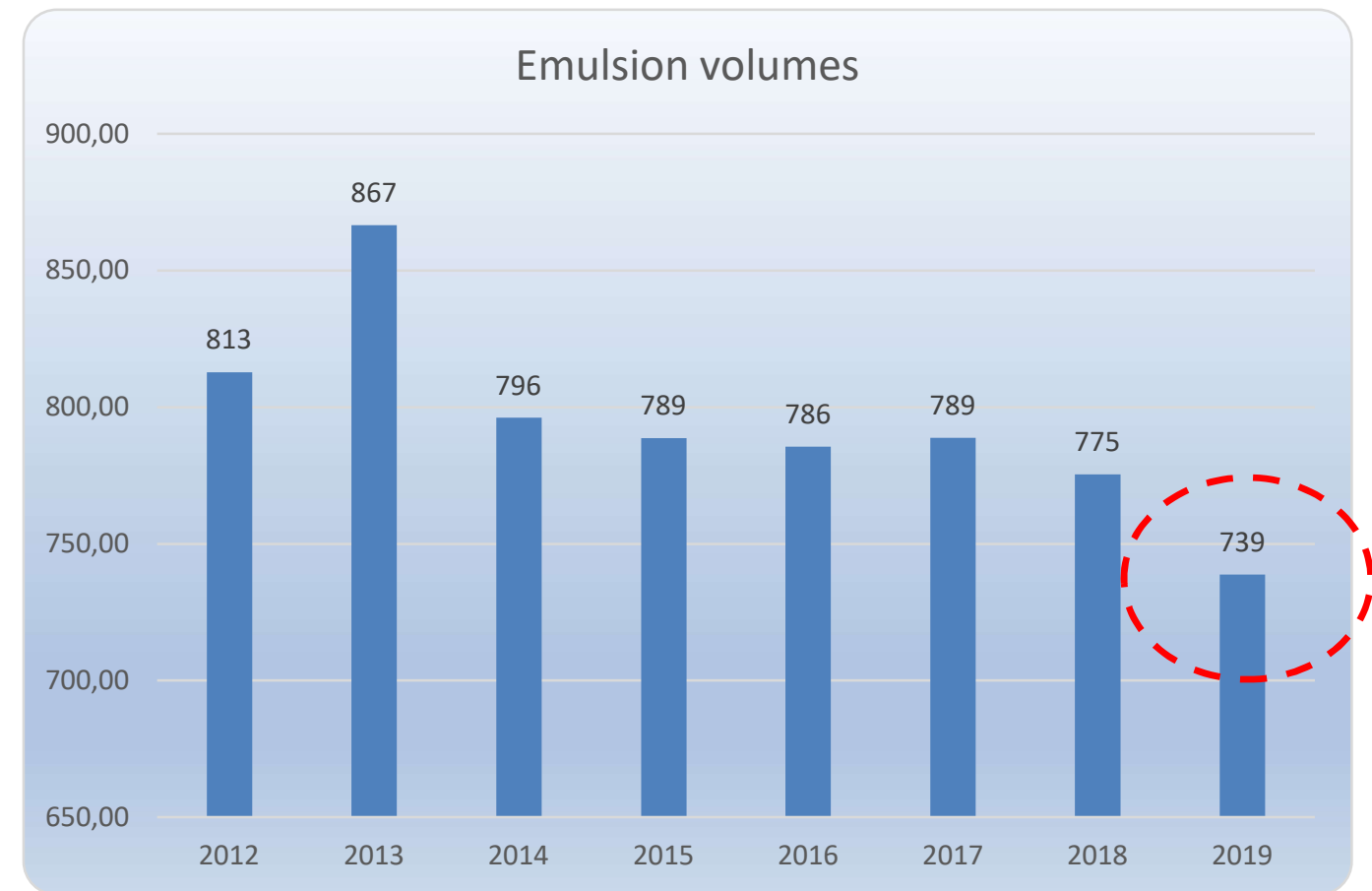
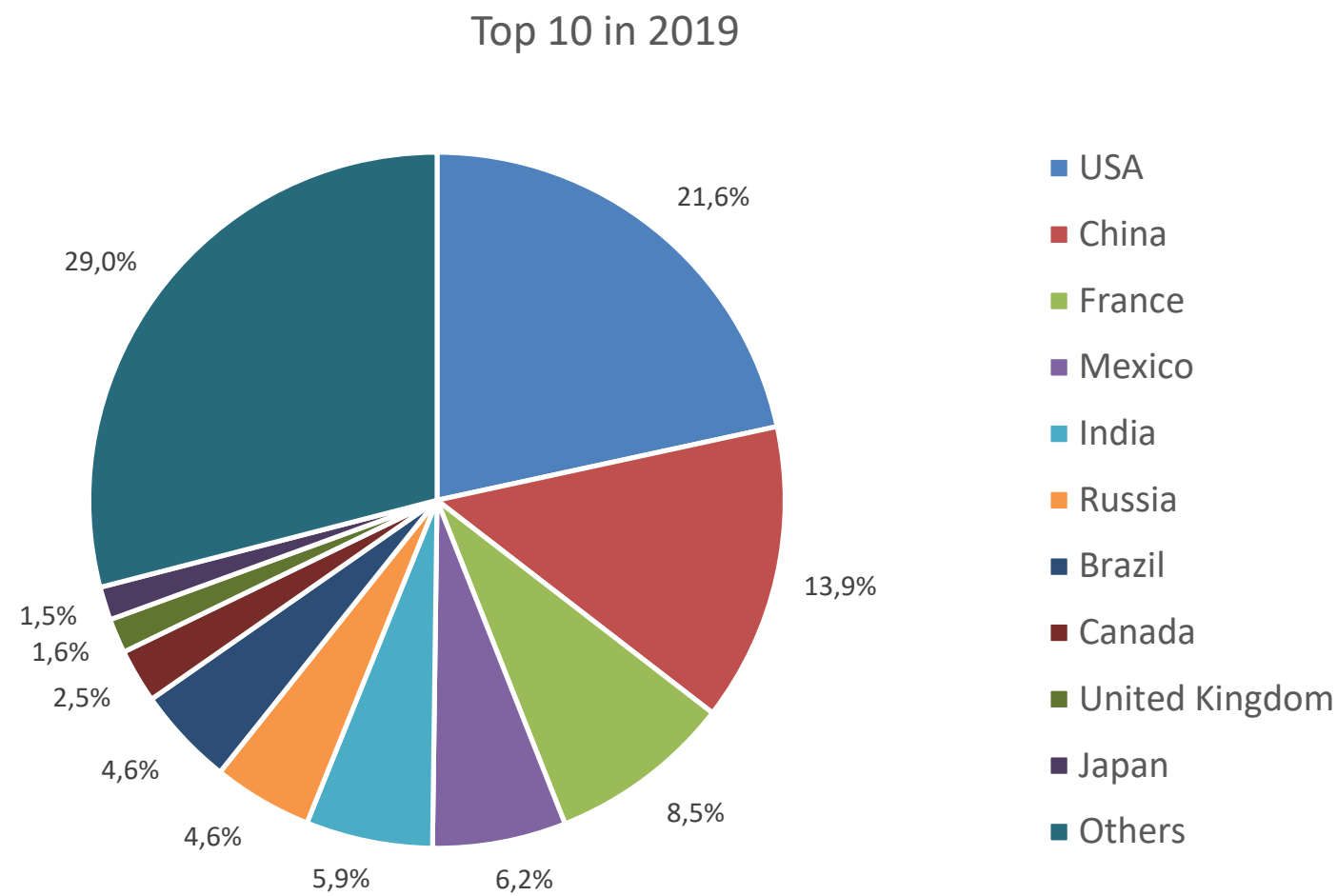
OUTLINE

- Volumes
- Usages
- Trends



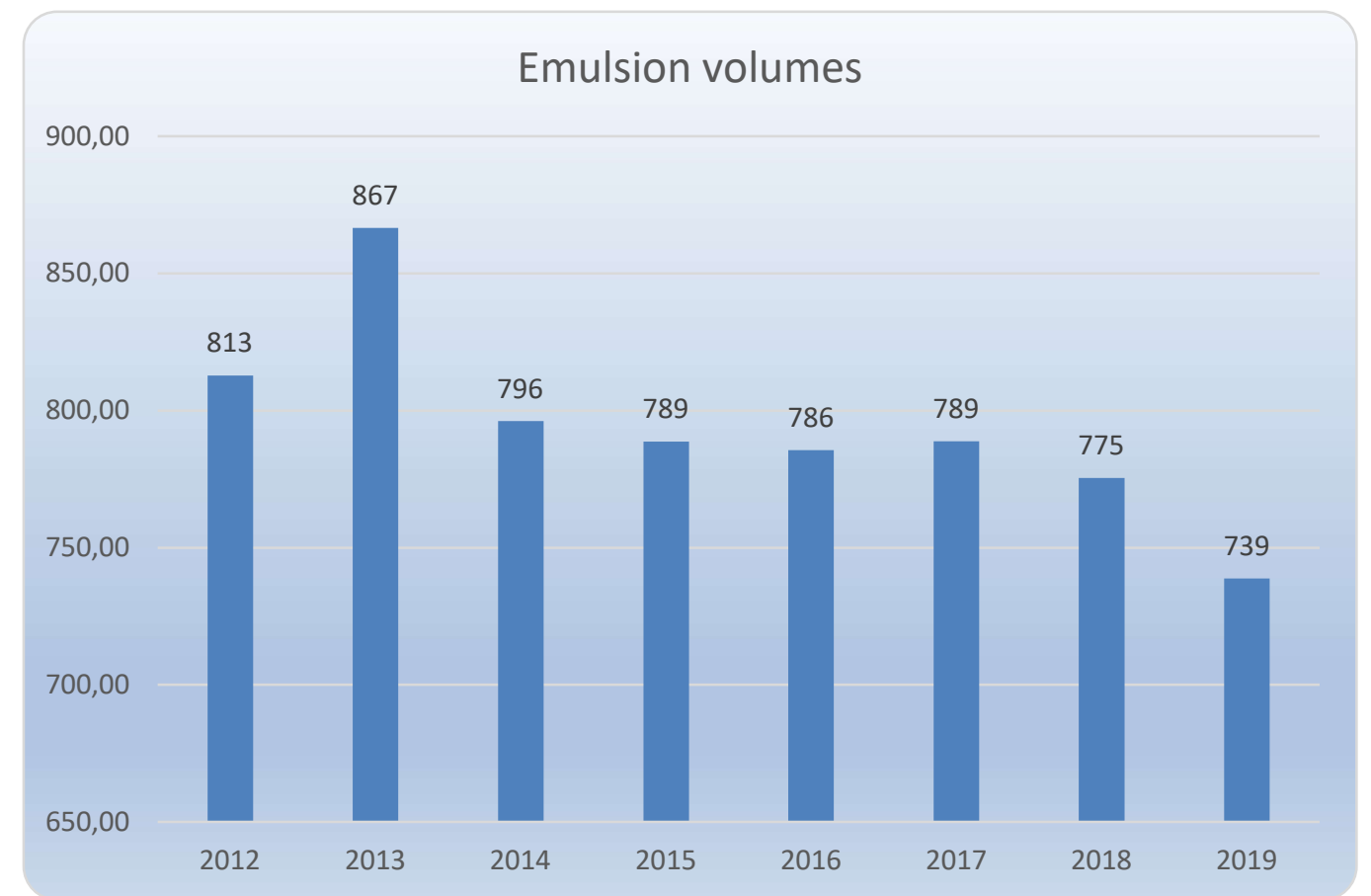
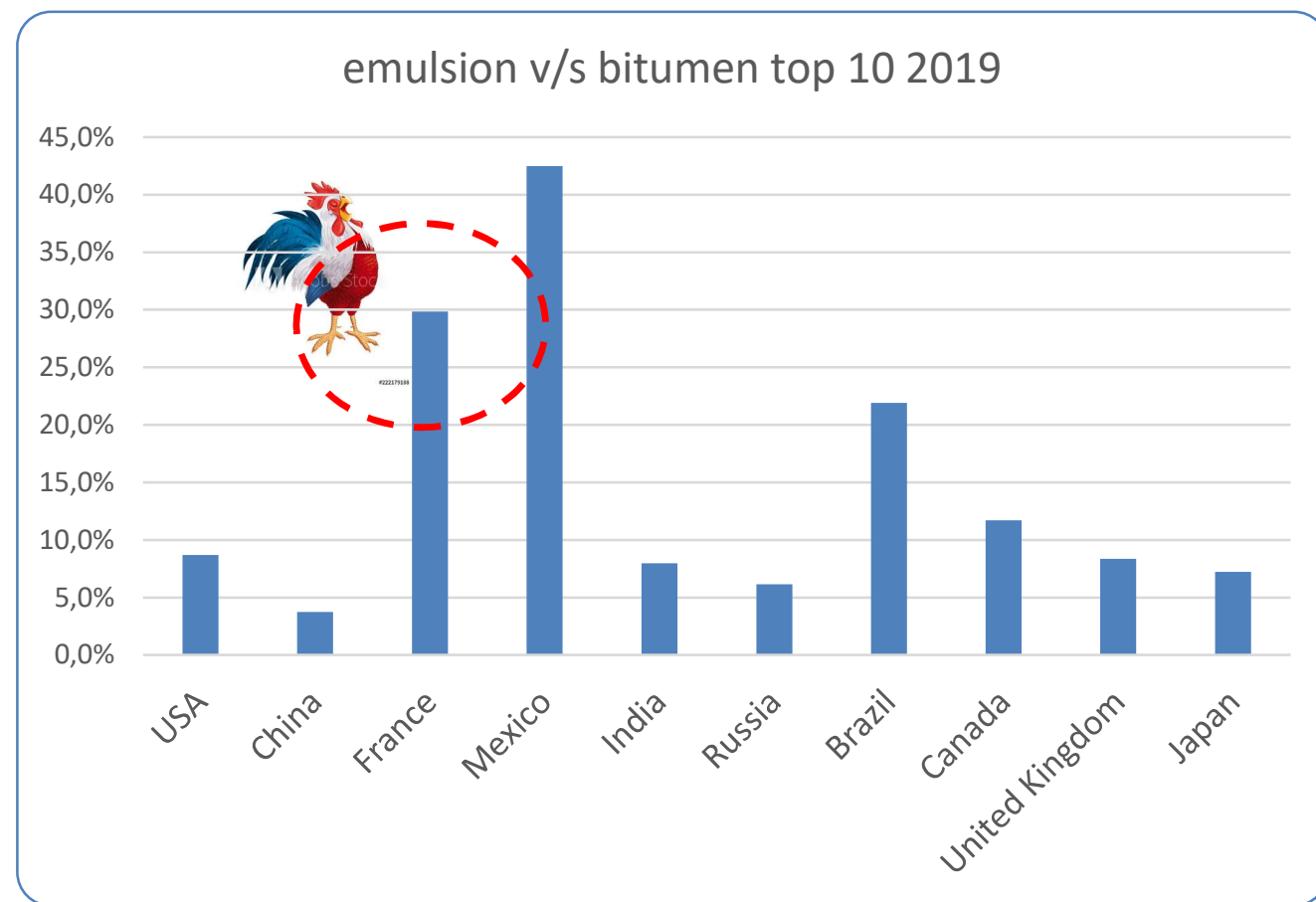
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VOLUMES



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VOLUMES

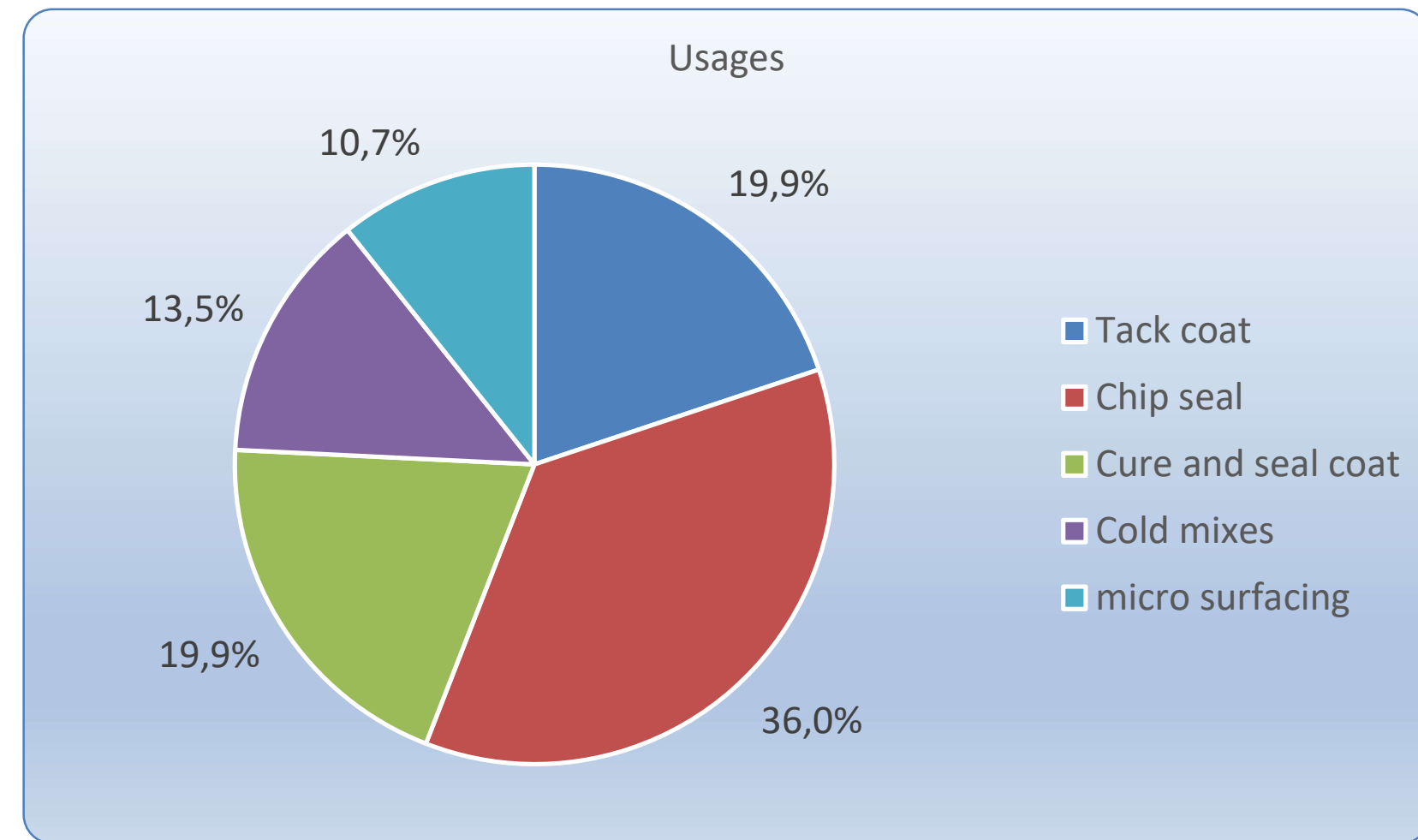
- A long tradition of the use of emulsions
- A close cooperation between the contractors and the bitumen – oil industry
- A close cooperation between the contractors and the Road Authorities
- An extensive road network: 1 million km out of which numerous pavements need thin maintenance systems



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USAGES

- Indicative data
- Major part: chip seal
- Most of the emulsions are used for surface treatment
- Cold mixes include CIR and gravel emulsion
- Cure & seal coat for base courses, including CTB

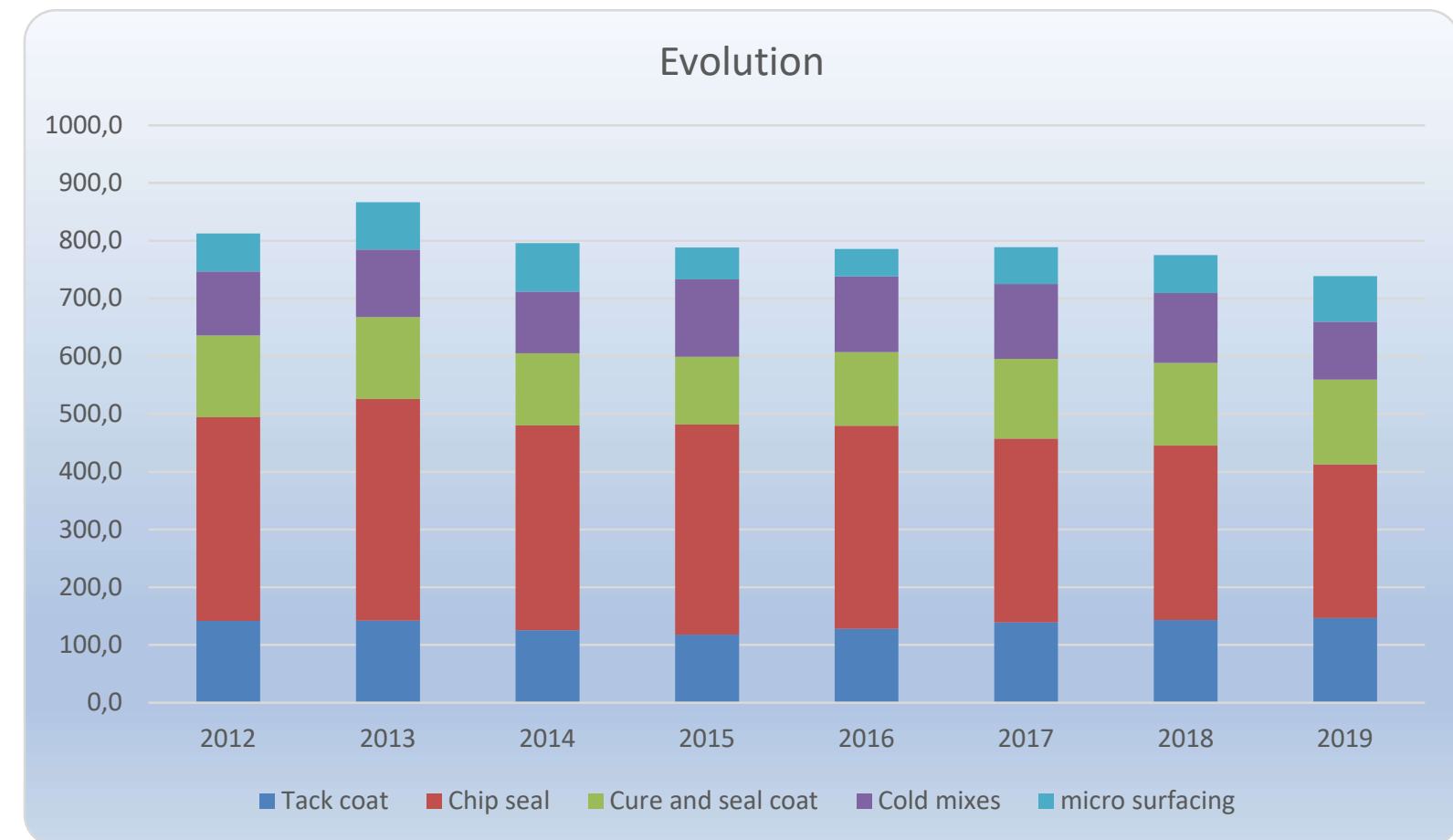


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TRENDS

- **Microsurfacing increasing**
- **Chip seal decreasing**
- **Cape seal – use of fibers**

- **Global usage declining**
- **Same trends for the bitumen usage**
- **Although many factors in favor of emulsions**

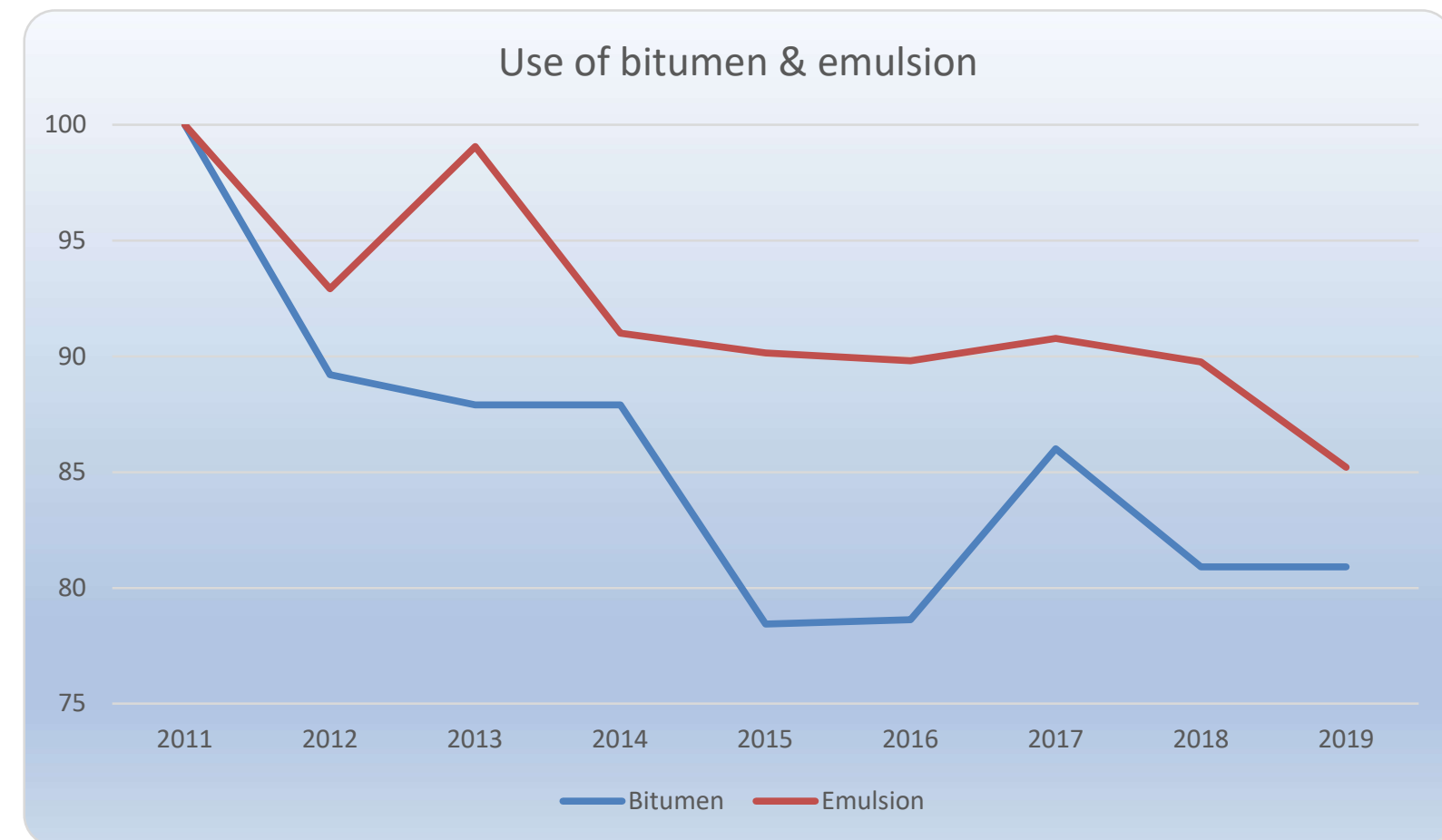


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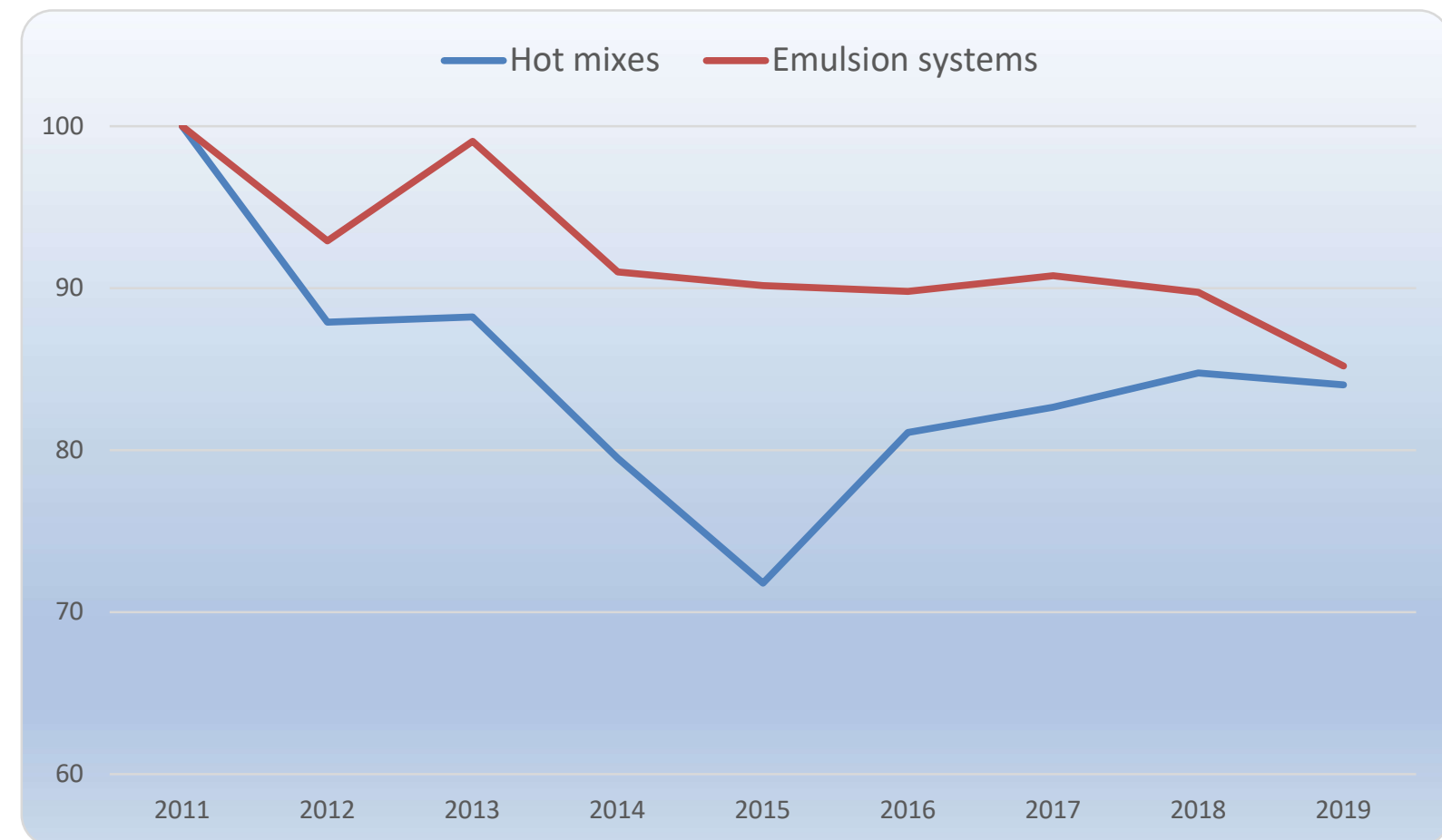
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TRENDS

- Global decrease of the road market after the 2008 crisis
- Emulsion systems and hot mixes globally follow the same trend
- Emulsion based chip seal market share increasing v/s hot spray (>90 v/s <10%). No acceptance from inhabitants, transport restrictions (specific licences), VOCs...
- Hot sprays use only “heavy” cutters (flash point over 80°C)



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TRENDS

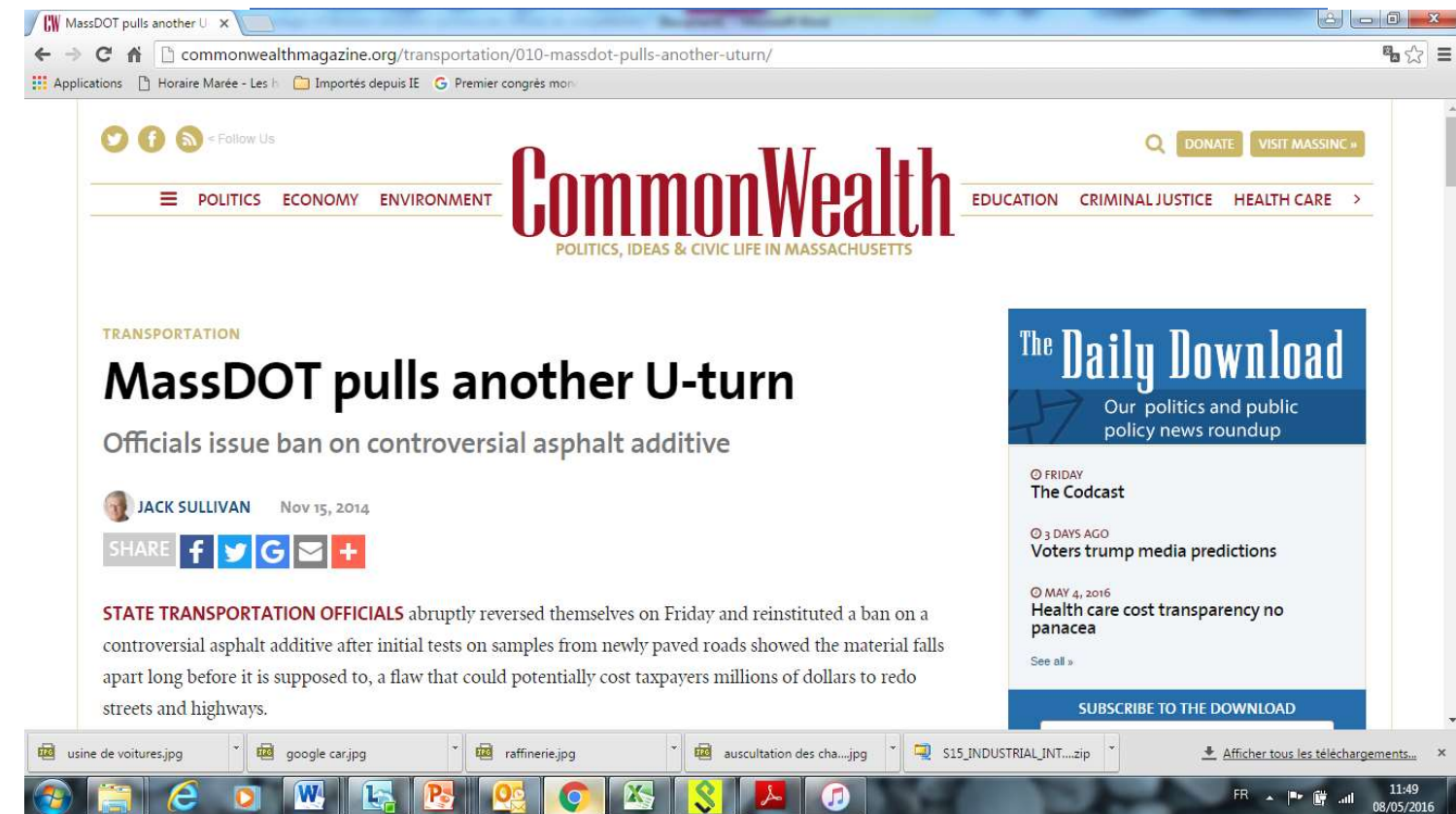
- Substitution of hot spray by modified emulsions (latex, pmb)
- Increasing share of bond coats (modified) v/s tack coats (unmodified)
- Same trend for chip sealing
- Increasing commitments from the industry to reduce its carbon footprint
- e.g. COLAS: - 30% by 2030
- Issues related to bitumen quality and consistency (Asphalt extenders / Reobs ?)



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TRENDS

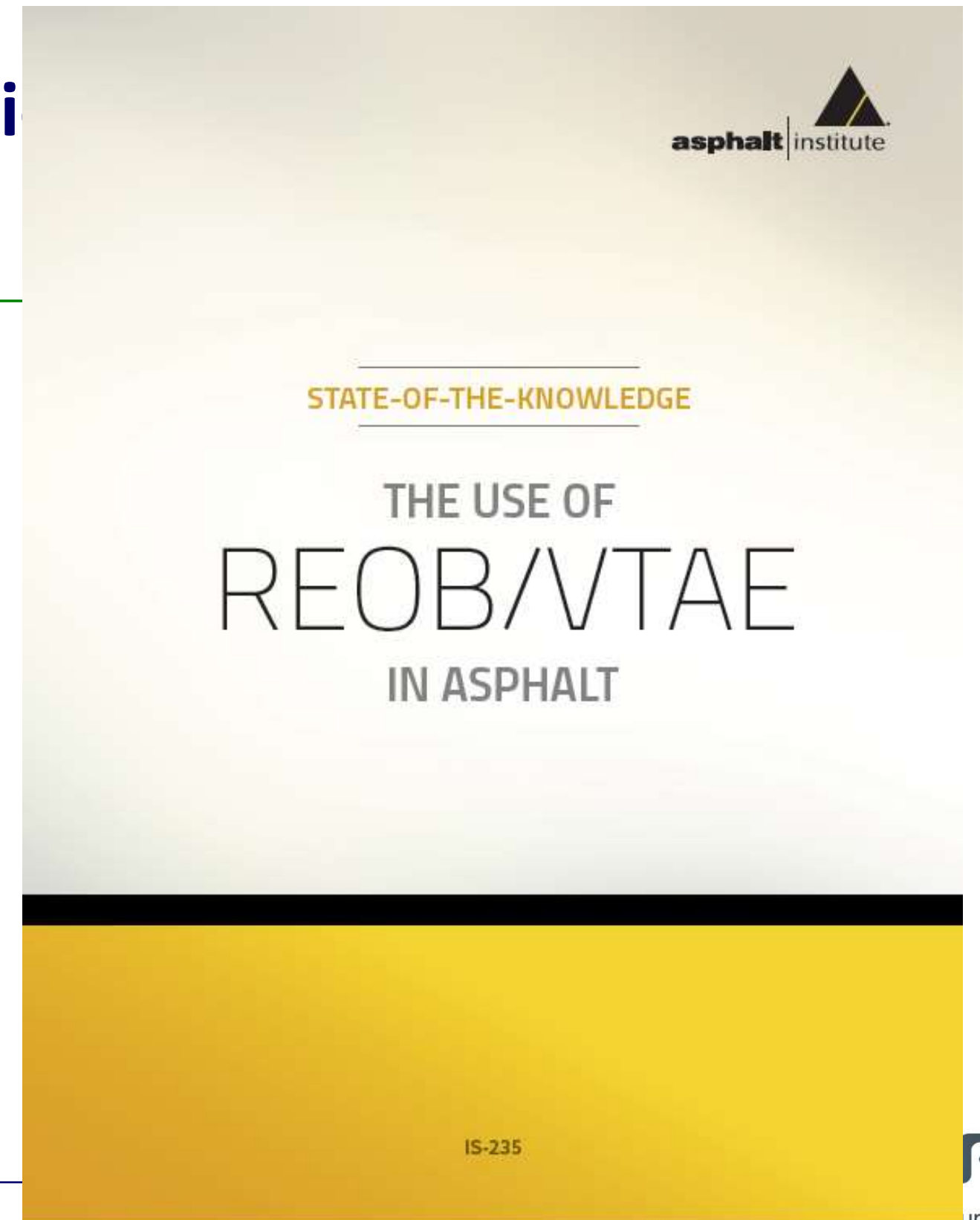
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THANK YOU

