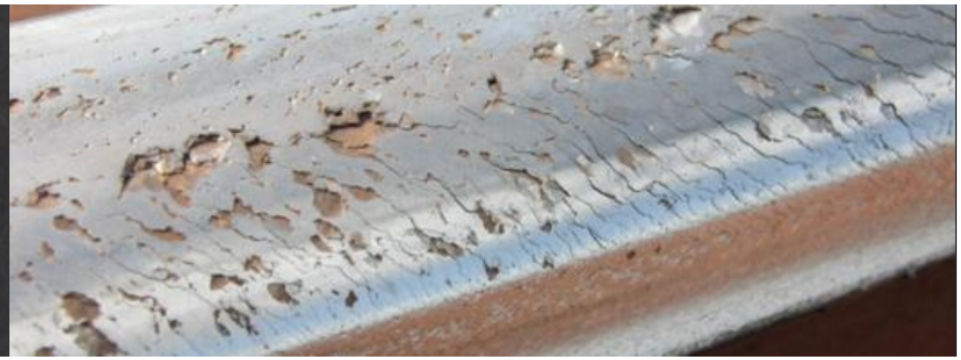
ICRI Workshop on Wear and RCF



Review and Outlook

The ICRI workshop held August 2-4 2016 in Vancouver went well and we received lots of positive feedback. Over the three days, 60 participants heard 25 presentations on topics that included modeling and measurement of rolling contact fatigue, practical applications of friction management and rail grinding, the performance of wheel and rail steels and modeling of damage.

All the presentations and wrap up documents are available now in the Downloads section.

As there was general consensus that the workshop is worth repeating next year at the same location we are very please to announce the date for the next workshop in 2017.

Save the date:

2nd annual ICRI Workshop on RCF and Wear August 1-3, 2017

University Campus of UBC (University of British Columbia) in the beautiful City of Vancouver

We look forward to welcoming you in Vancouver.

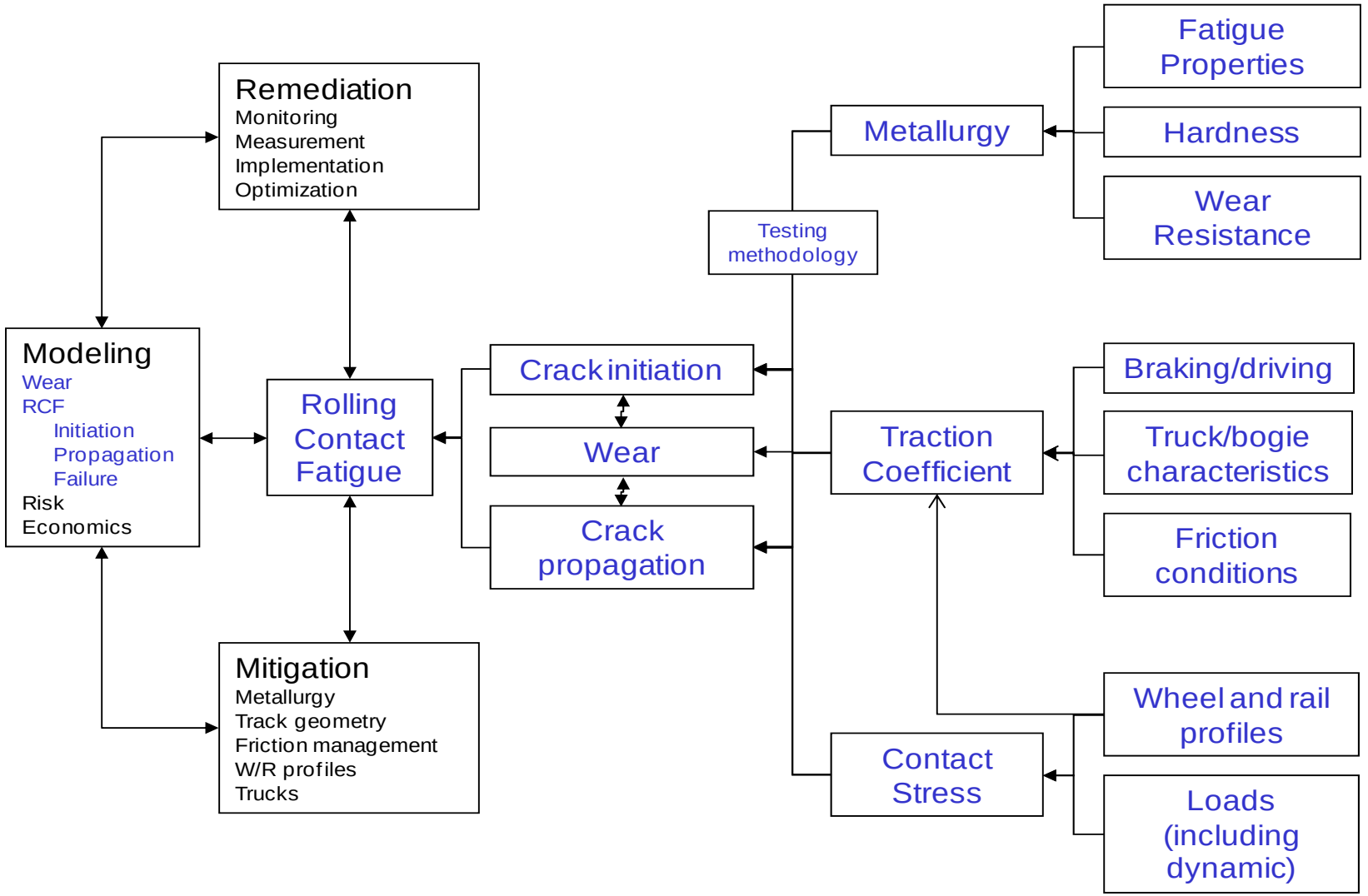
RCF, Wear and Rail Integrity
An International Collaborative Research Initiative

Eric E. Magel – NRC, Canada

17SEP16

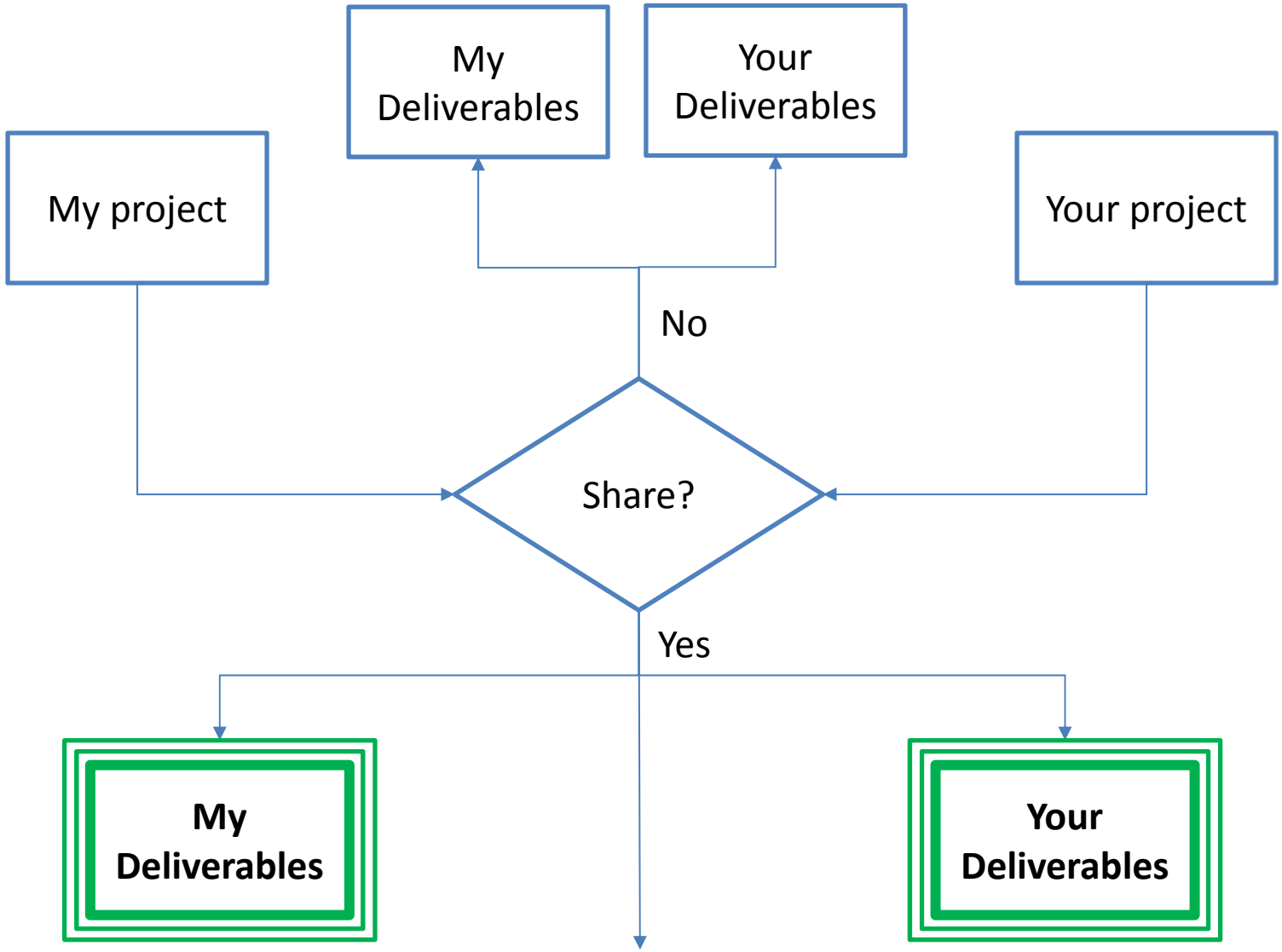
2011 – FRA workshop
EM RCF Review

Managing Rolling Contact Fatigue



ICRI Objective

- Bring together interested parties to work on topics of common interest
- Leverage resources (personnel, models, data, field studies) where can be shared
- Minimize overall costs – no “re-inventing the wheel”
- Minimize administrative overhead – informal, “open-source”

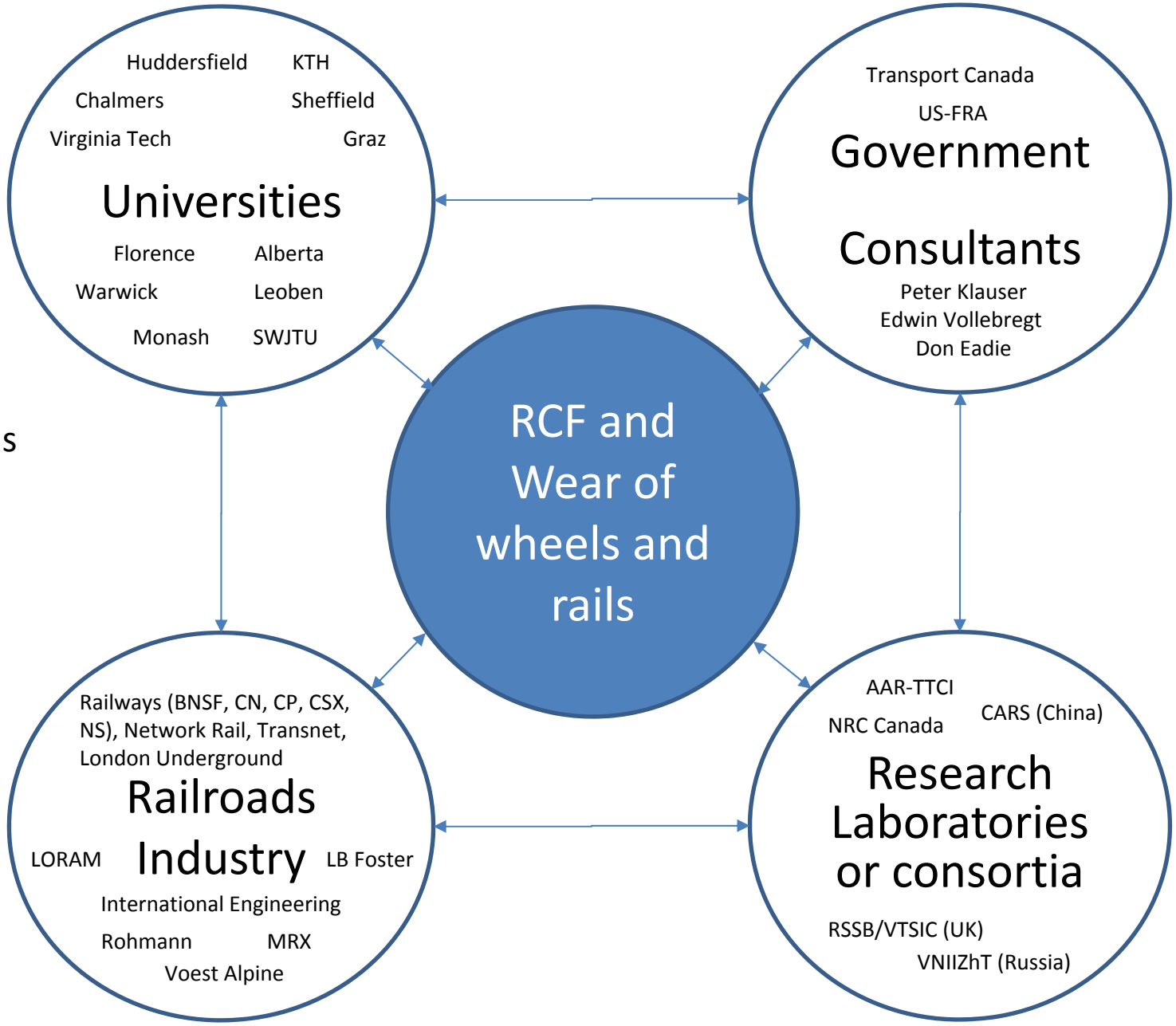


Better/stronger deliverables
Professional relationships
More/stronger/collaborative publications

The ICRI - operating model

- Participants contribute data, expertise, models, ideas *from existing projects*
- All contributions are “in-kind”
- The ICRI IS NOT a funding body. Each participant is self-funded (obtains funding by conventional means from existing clients)
- Information shared amongst all participants
- For most: not explicitly looking for new money, but need authority to share.
- “Open Source” model.

150 persons
16 countries
80 organizations



Klaus Six / Edwin Vollebregt
ICRI-FrictionModeling *

Roger Lewis
ICRI-Wear Mapping

Eric Magel
ICRI-MagicWearRate

Peter Mutton
ICRI-Safety

Roger Enblom / Adam Bevan *
ICRI-WheelDamage

Dan Szablewski
ICRI-QuantifySurfaceDamage *

International Collaborative Research Initiative (ICRI) on RCF and Wear of Rails and Wheels

New topics: Aug 2016

- ICRI-ResidualCracks (EMagel)
- Predictive Grinding (DHampton) *
- Performance of new rail before first grind (RHarris, DBJork, BKerchof) *
- Reverse TD's (PMutton) *
- Fluid/Crack Interaction (BKerchof)
- Ultrasonic measurement of rail stress (RLewis) *
- Crack modeling (DSzablewski)
- Rail welds - damage prediction (PMutton) *
- VTI Economics (GWolf)
- Friction modifiers - Field test requirements (DHammons, WDombrow) *
- Scaling - lab tests to real world perromance (RLewis) *
- Damage modeling (KSix) * *

9:30	E. Magel	Introduction
9:45	P. Mutton	Rail welds – damage prediction
10:15	K. Six	Damage modeling
10:45	review and discussion	
11:00	Break	
11:15	D. Hampton	Predictive rail grinding
11:45	A. Vickerstaff	LUL rail monitoring
12:15	review and discussion	
12:30	Lunch break	
13:00	A. Bevan	Wheel damage
13:30	Six/Vollebregt	Friction modelling
14:15	review and discussion	
14:30	Break	
14:45	R. Lewis	Scaling small scale to full scale lab tests
15:15	E. Magel	AWRISE, discussion, next steps