



REPTILE

pluggable lizard brain

Locolog

journey details

monitoring **train** operation's **safety** from **big data**

2nd UIC Digital Awards

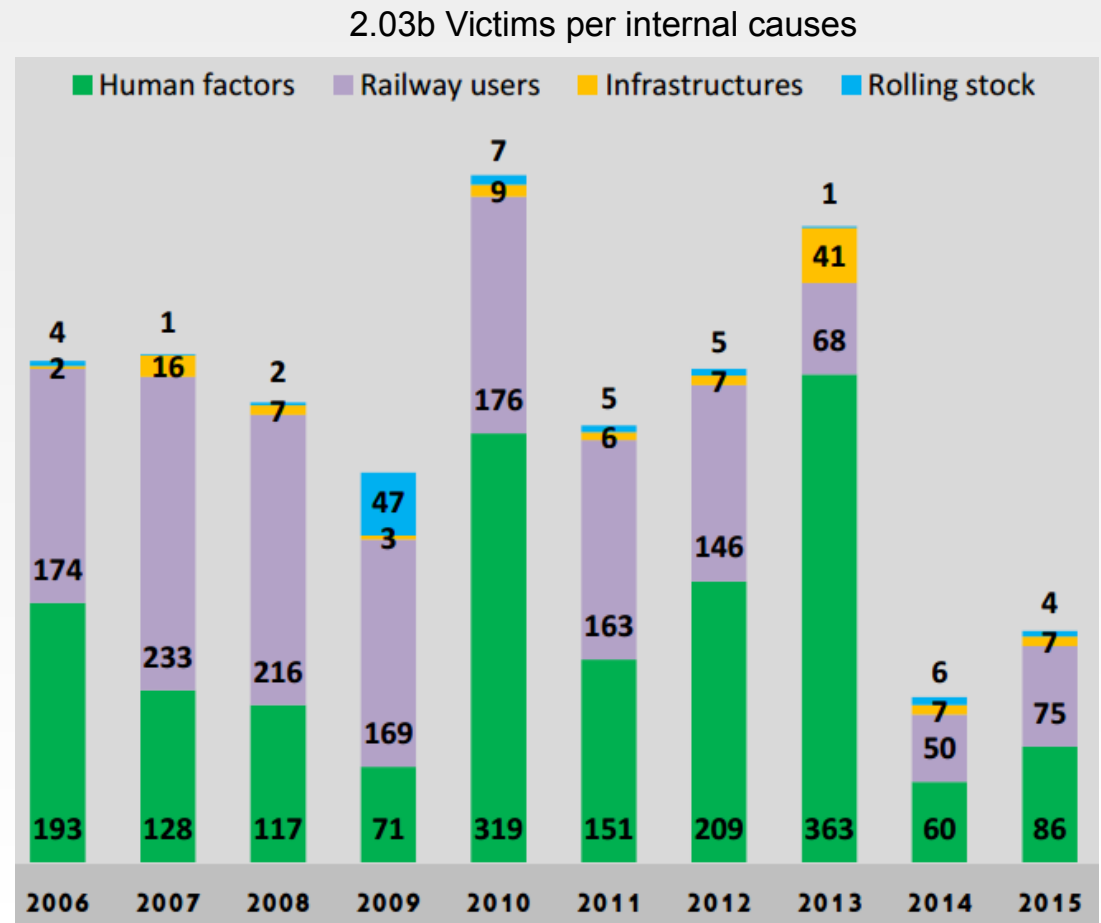
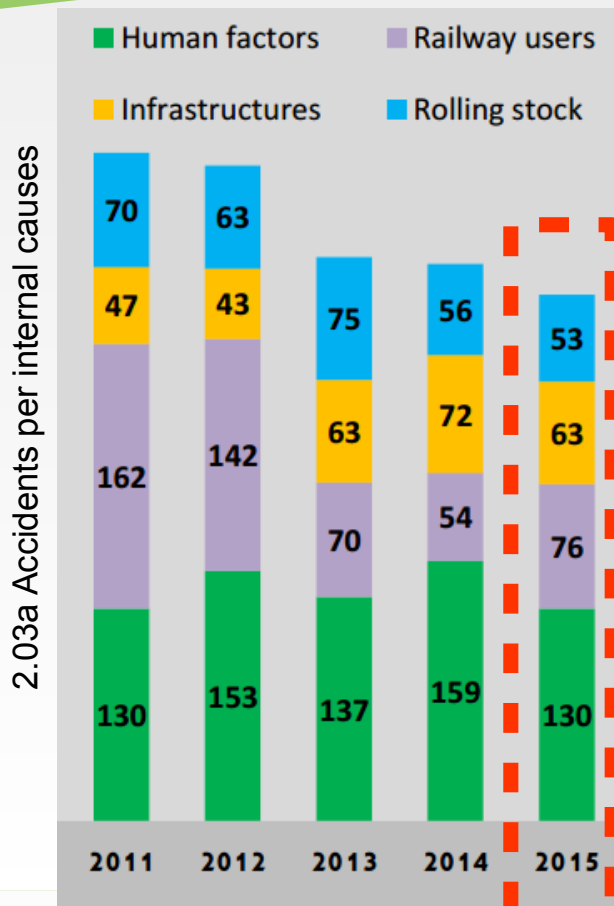
Paolo Righetti
research & innovation



Railway accidents' trend and causes

40% of accidents caused by human factors in 2016

data & graphs from UIC Safety Database Report 2016



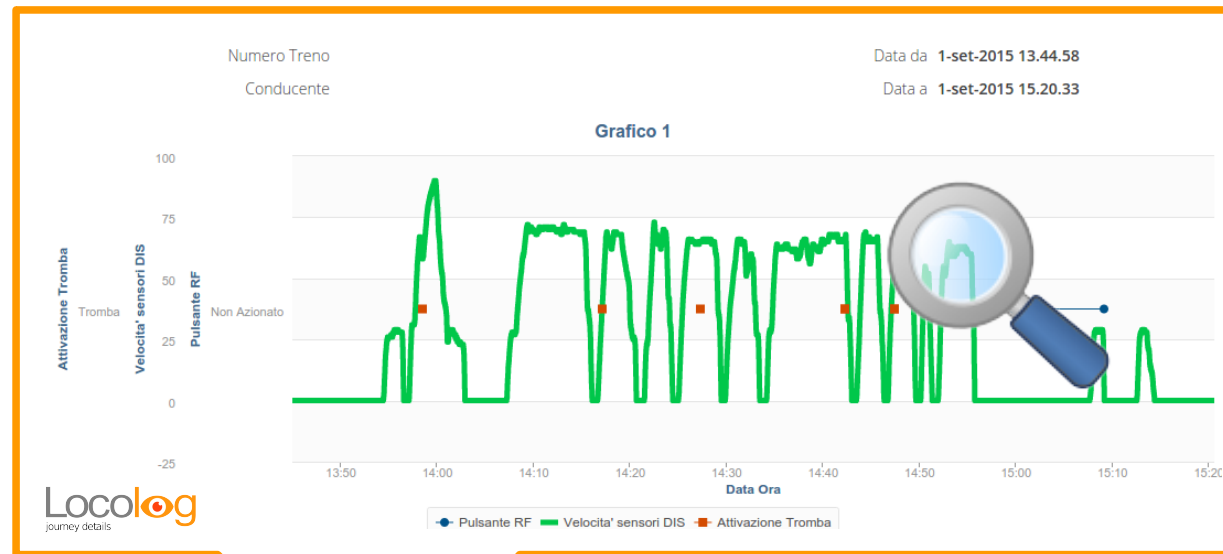
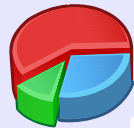
Monitor operations safety

goal

countermeasure

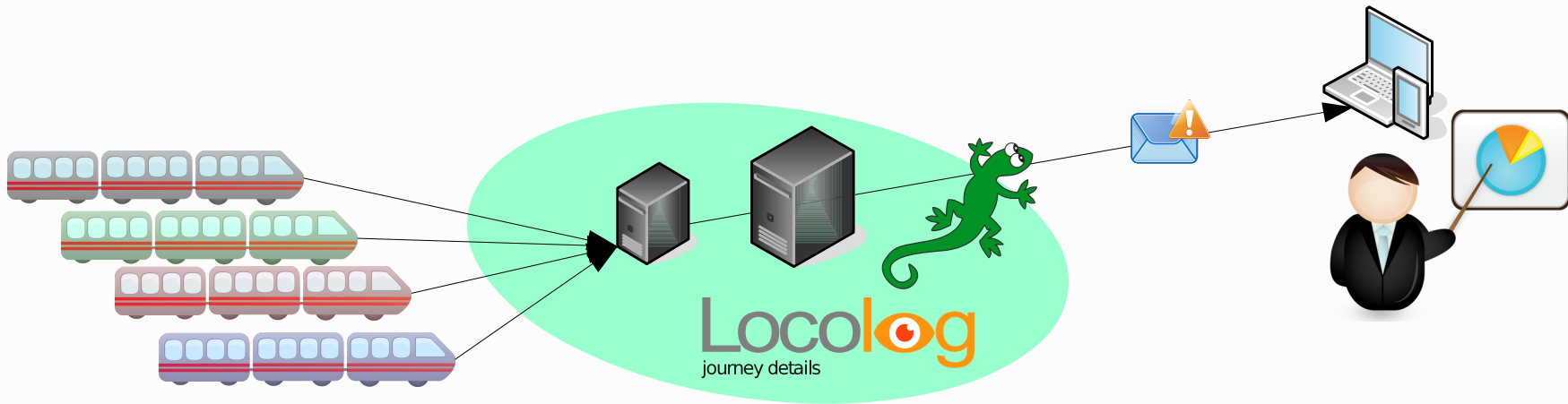


measure



How it is working

quality



Before vs after

quality

- sampled checks = estimation, **belief**
 - **risky** risk monitoring
- vs
- 1) systematic checks: knowledge
 - 2) higher level of accuracy
 - 3) best practices monitored\



In a nutshell

- human factors affect **safety**
- safety has **vital** importance
- **knowledge** is a basis for safety
- **engine data** is a source of knowledge about operations performance
- **systematic analysis** provides trends on behaviours

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2nd UIC DIGITAL AWARD - Paris 2017

Fretless Idea

Bring monitoring to a
new level with

REPTILE

pluggable lizard **brain**

