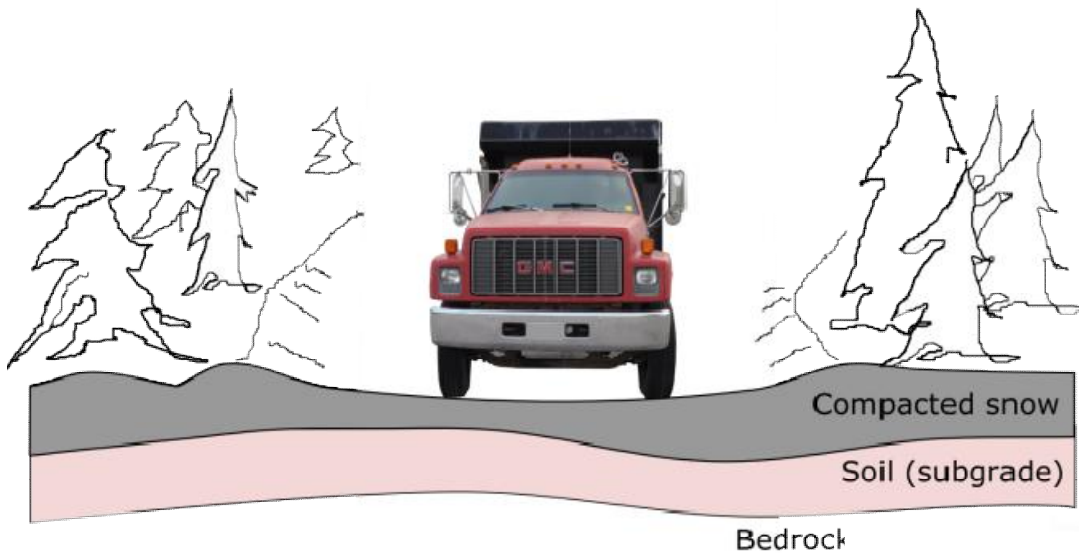
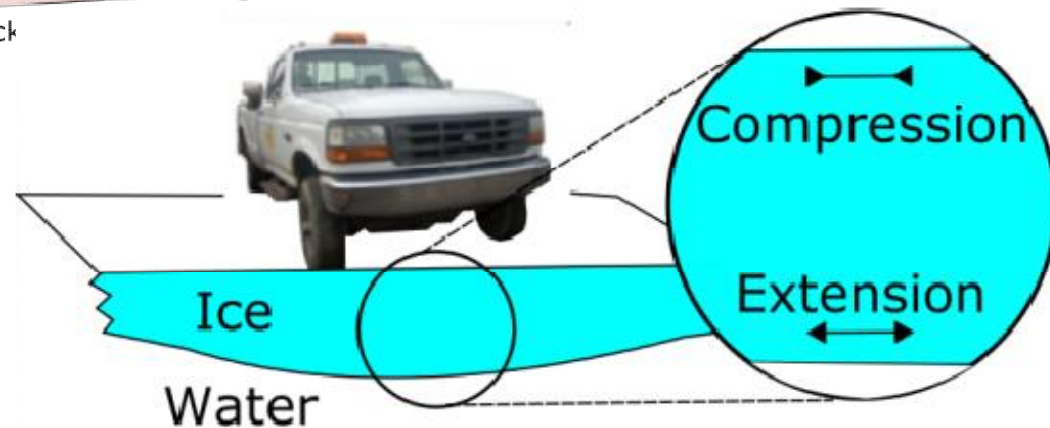


Winter roads: Prospective solutions

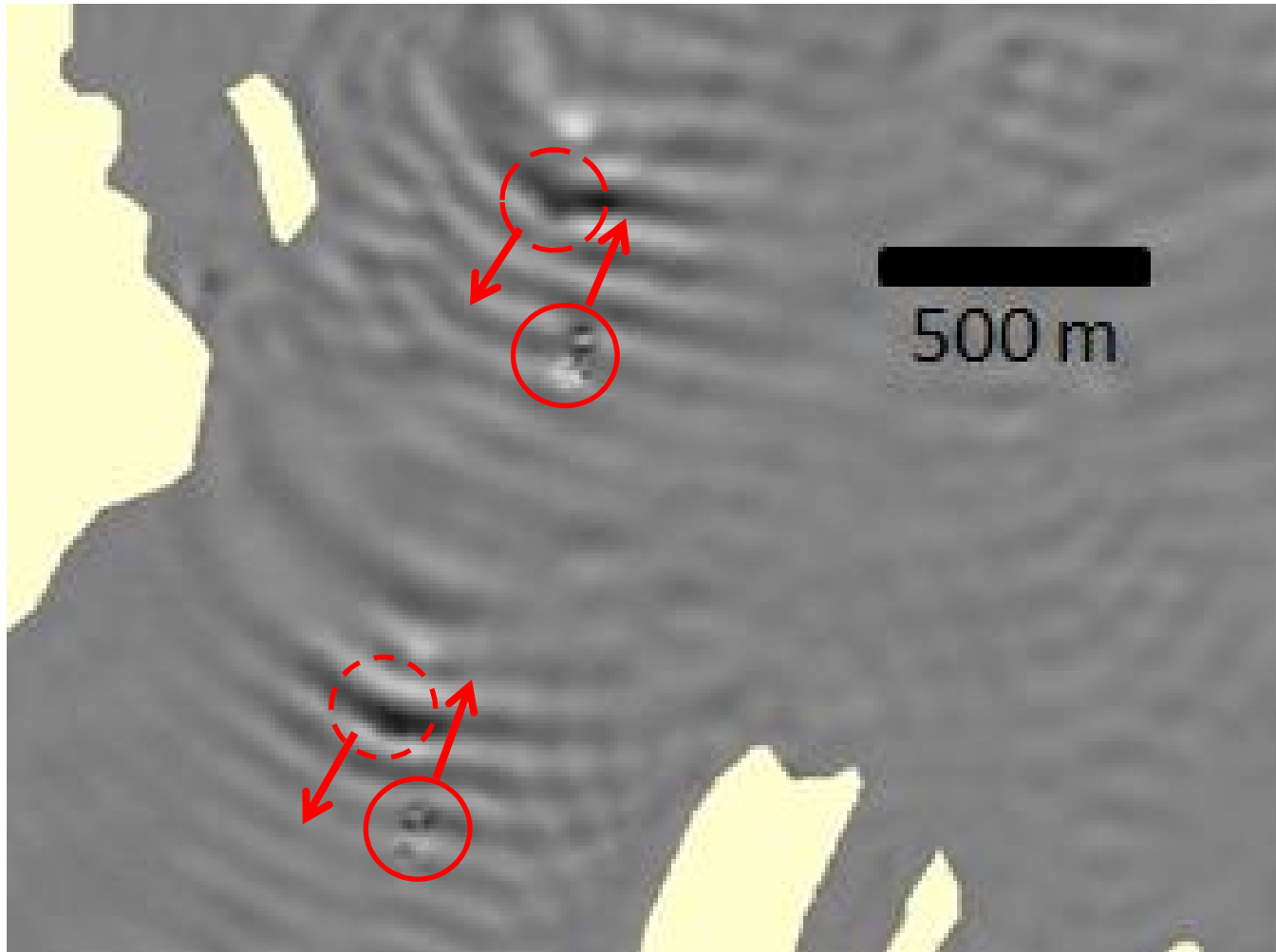


Over land

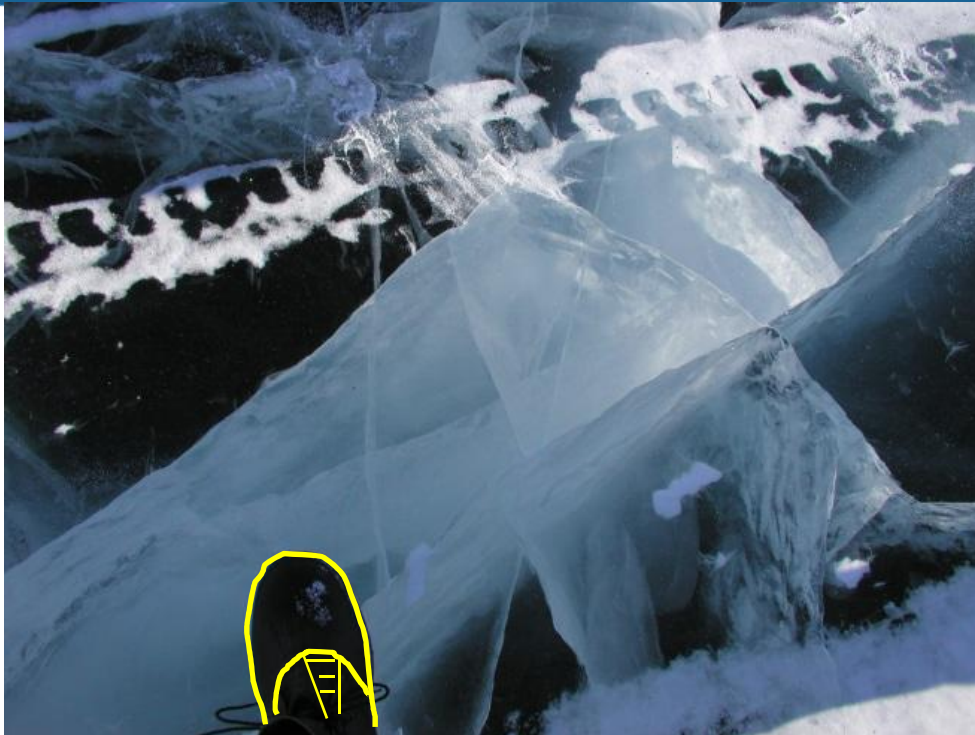
Over ice



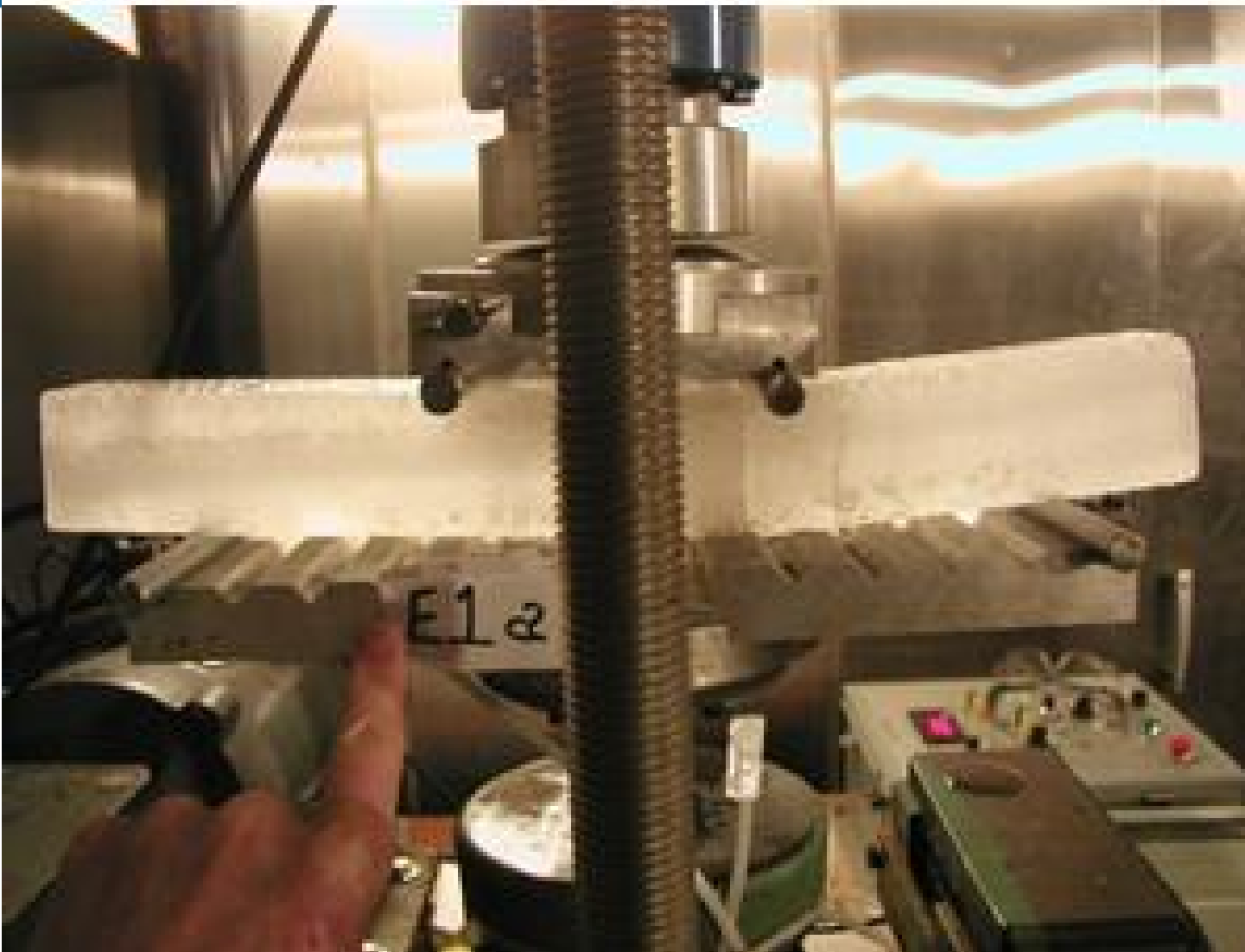
Wave patterns and speed limits



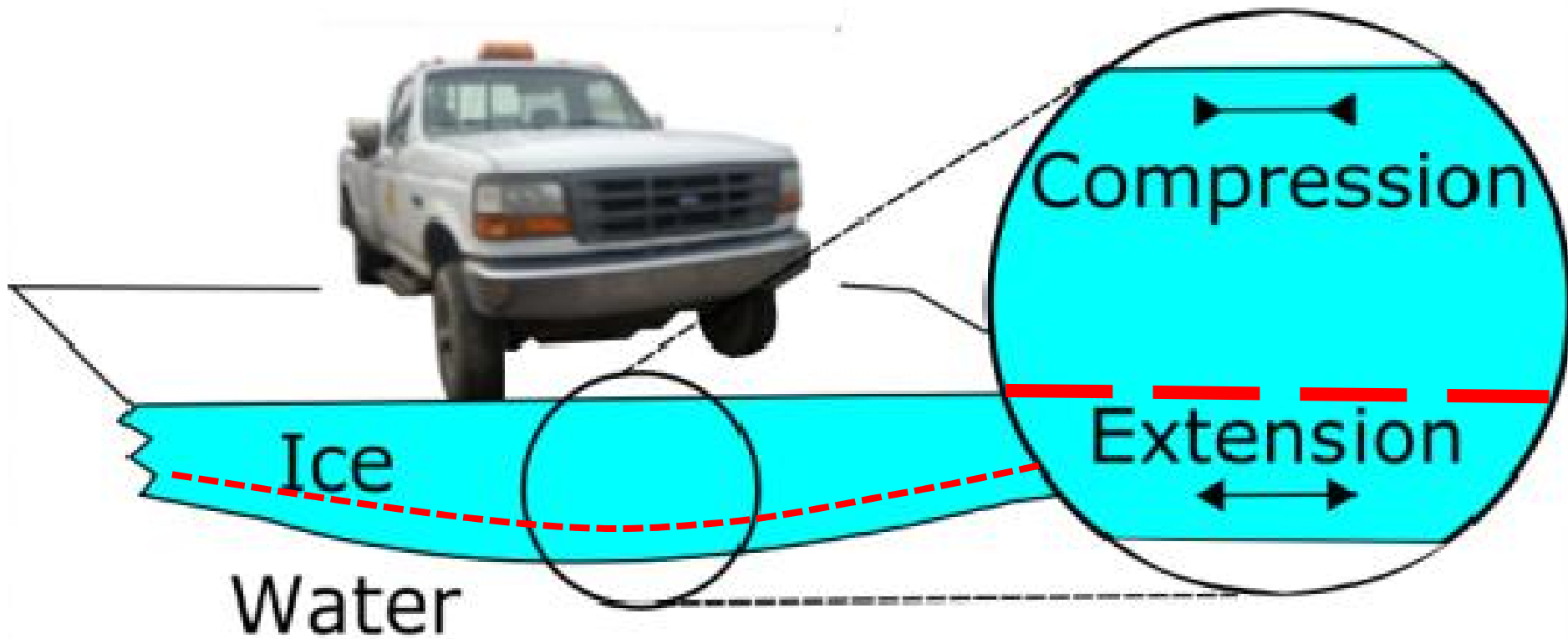
Cracks in the ice



Laboratory testing



Ice strengthening



Data collection



Inform the decision makers

- Monitoring ice thickness (e.g. SmartIce)
- Road configuration, grades, cross-slope
- Clearance
- Angles of turn, road width.
- Orientation of slopes on over-land segments
- Shape of ice crossings
- ... + ...
- Road usage (traffic, transported goods, road opening/closure dates, etc.)