CORRIDOR

COgnitive Radio for Railway through Dynamic and Opportunistic spectrum use

SNCF
High speed measurements

Summary

• Initial context
• Alternative solution for measurement
• Measurement campaign
Initial context

• SNCF High Speed Plateform project

► Initial contribution of SNCF was based on the project of the High Speed Platform project dedicated to tests and measurement on LGV East

► The project aborts officially in January 2012

Actions for alternative solution has been taken considering project planning and budget
Alternative solution for measurement

Material and human resources

► Material
  • Measurement vector : IRIS 320
    High speed train for railway infrastructure diagnostic
  • Ground infrastructure :
    ➢ 1 site for « public operator » configuration (about 1km from railway)
    ➢ 1 site for « railway operator » configuration (on railway)
    Location on LGV Atlantic in region of Eure et Loir.

► Human (IFSTTAR, THALES, EURECOM, SNCF)
  • On board : 5 persons
  • On ground : 7 persons
Alternative solution for measurement

Site location

- Site survey
  - Investigation on 20 Km on LGV Atlantic
  - On 20 sites identified, 2 sites selected:
    - Site of Auneau
      « Public operator » site
      1.2 km from LGV
      Private location
    - Site of Rouvray
      « Railway operator » site
      On track
      RFF location
Measurement campaigns

2 Measures campaigns in high speed conditions

• 31\textsuperscript{st} March and 19\textsuperscript{th} May 2014
• 1 IRIS 320 circulation allowed 2 measures
• On board and ground Installations
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