Cycle Paths ERPUG 2023 Athens, Greece

Update of a system to evaluate comfort & safety of cycle paths in Virginia

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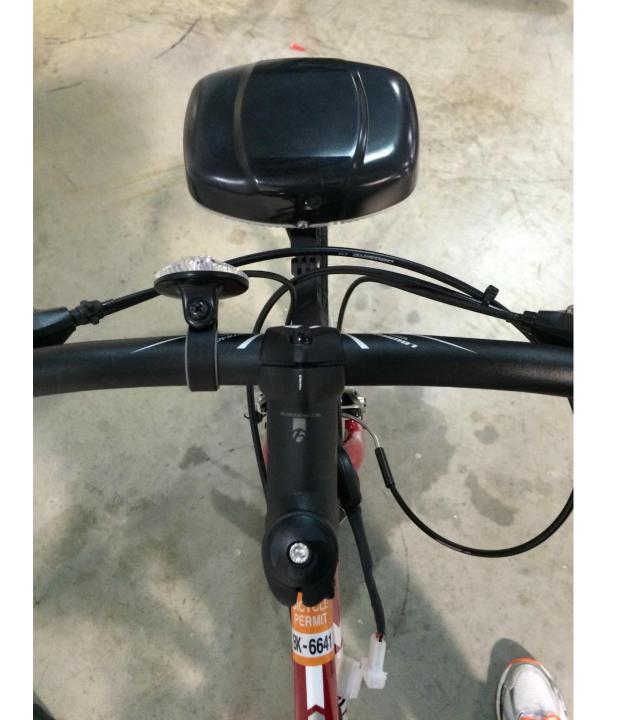
Presentation

- **►NSTSCE Integrated Bicycle (mini-DAS)**
- New updated version (micro-DAS)
- Initial results (sample output)
- Data transfer for decryption
- > Data visualization options
- >Test track validations
- >Next steps





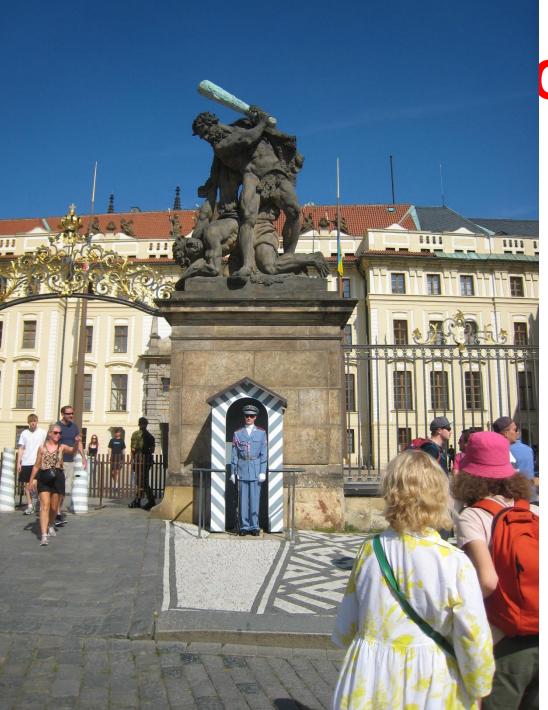




Set-up has the mini-DAS located forward of the top tube, which eliminates handlebar sway.

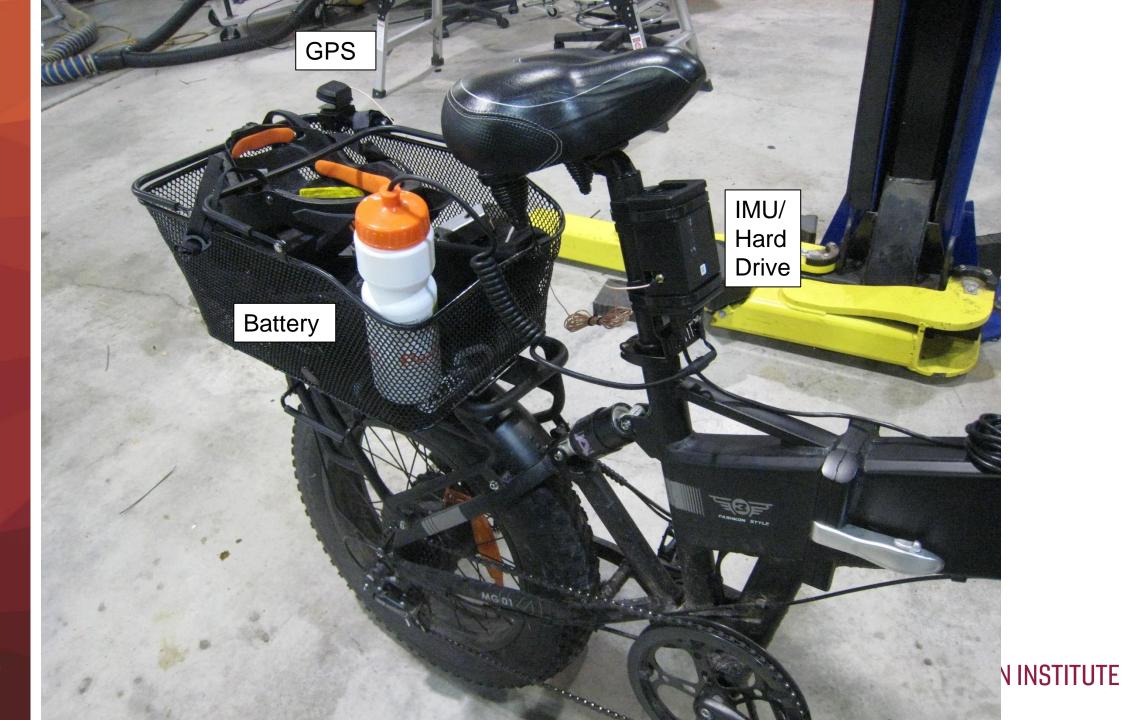






CZ (Previous meeting)









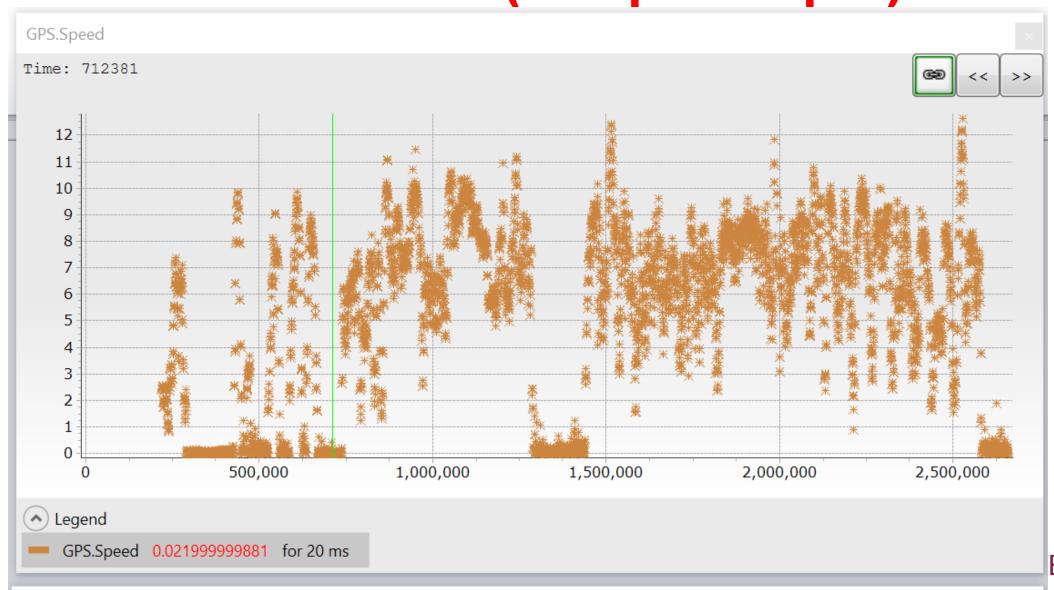
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Initial results (sample output)



▼ Copy Lat/Lon Configure GPS Sources Point Size: Latitude 37.194004333 -80.4026365 Longitude

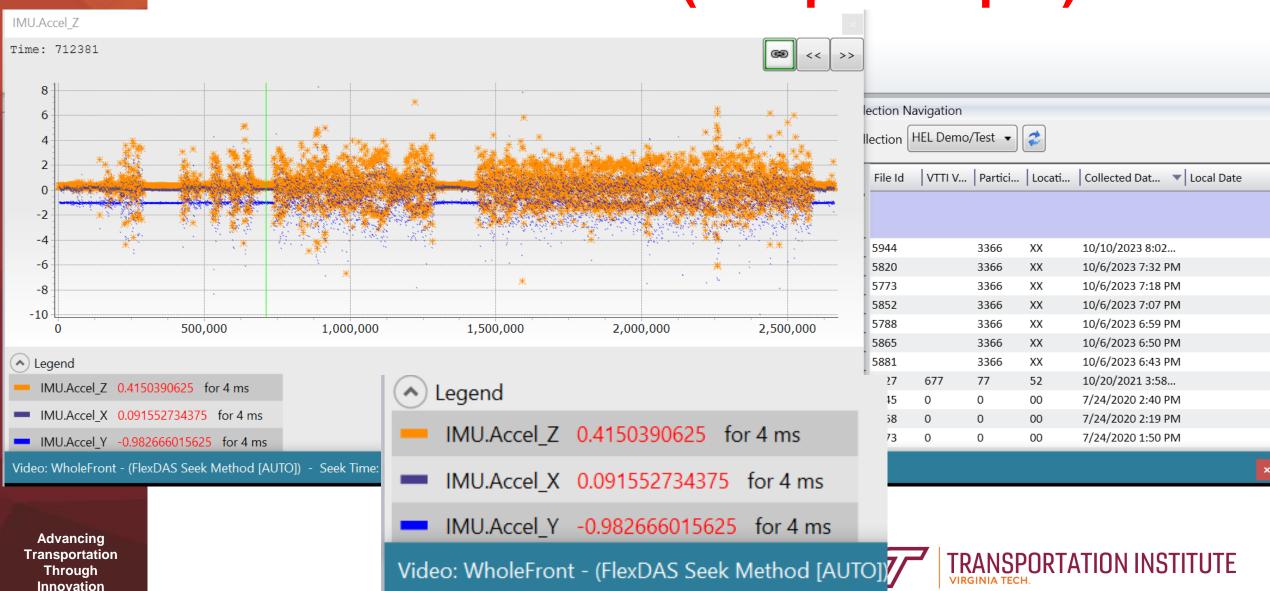
Initial results (sample output)



Initial results (sample output)



Initial results (sample output)



Data transfer for decryption

- >Transferring data to VTTI for decryption
- >UNIX system
- Obtain only Raw data or

- Data visualization options (new software)
- ➤ New system?



Next steps

- ✓ Testing on Different bikes
 - –Racing or street
 - -E-bikes
 - -Scooters
- ✓ Where is the best place for the DAS?
- √ Validations with street unit (rural road)





Next steps

- ✓ Testing on Different bikes
 - –Racing or street
 - -E-bikes
 - -Scooters
- ✓ Where is the best place for the DAS?
- ✓ Validations with street unit (rural road)
- ✓ Reference Profiles
- ✓ New bicycle IRI modeling, etc.
- ✓Spring comparison (Brussels?)





Questions?