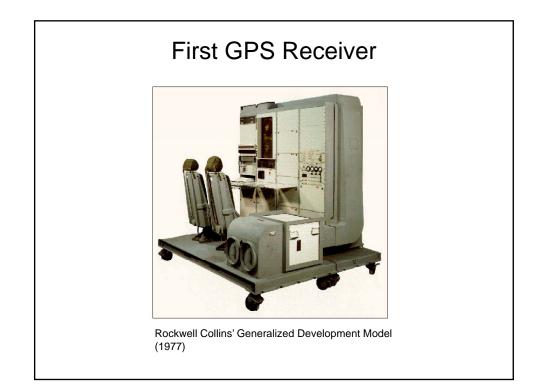


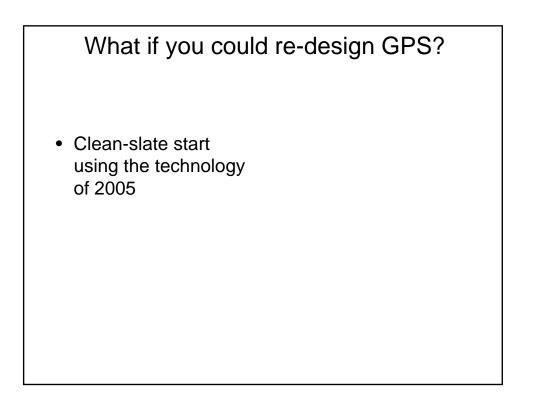
Invitational Workshop on Opportunistic Localization for the Next Generation Wireless Devices, WPI, 16-17 June 2008

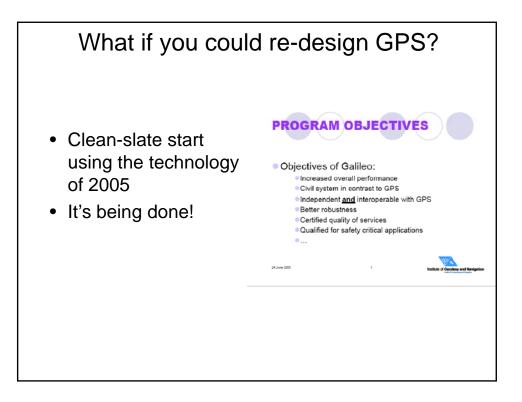
## GPS and its Potential Competitors

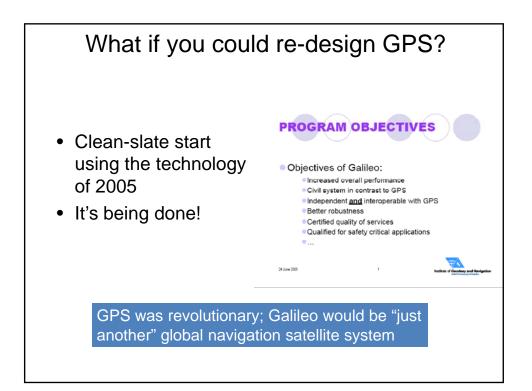
**Pratap Misra** 



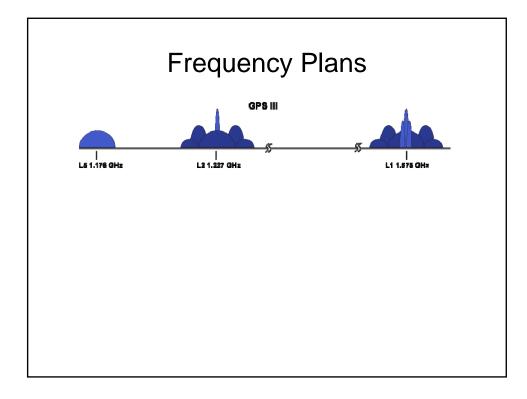


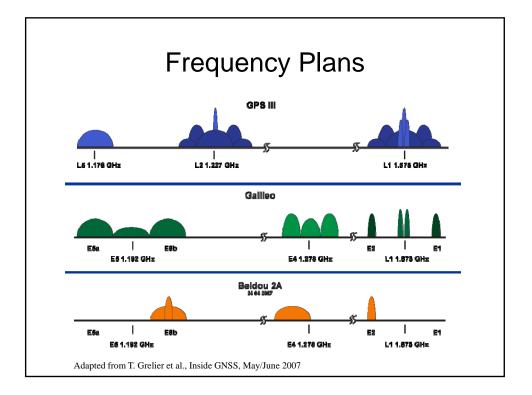






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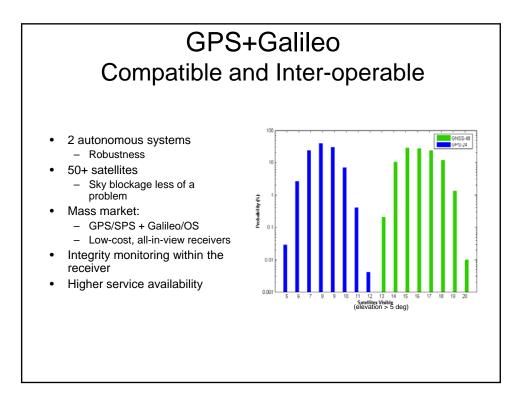


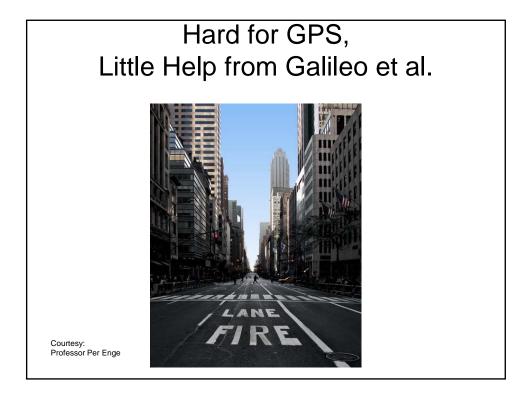






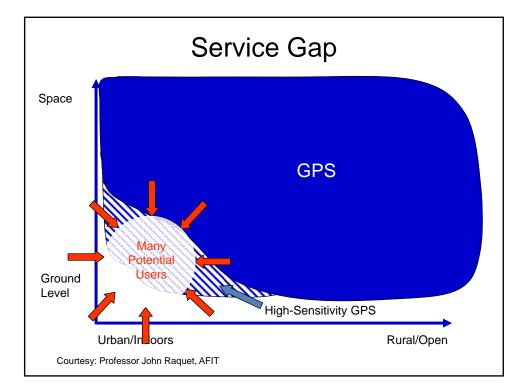
- Medium earth orbits (MEOs)
  Orbital radius: ~25,000 km; period: ~12 hours
- ~24-satellite constellation
- CDMA ranging signals
- 10 MHz chipping rate
- Civil/Acquisition code: 1-ms period, 1-MHz chipping rate
- Limitation: Signal strength

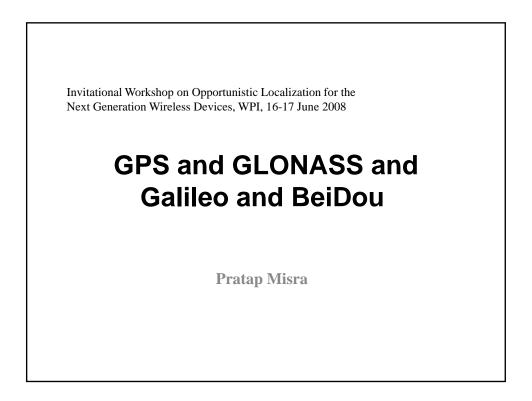






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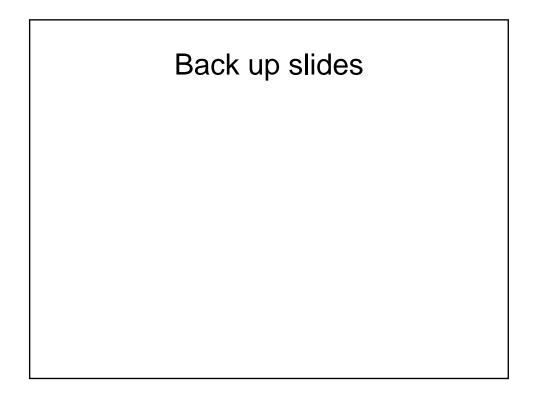




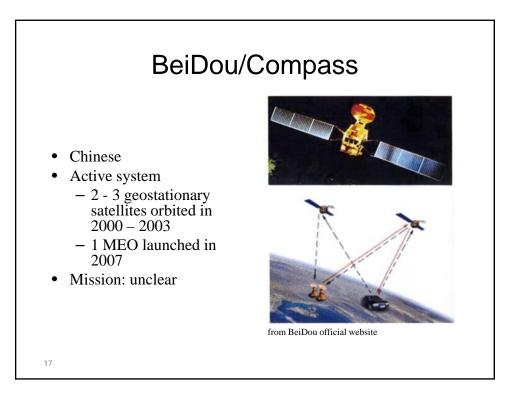
Invitational Workshop on Opportunistic Localization for the Next Generation Wireless Devices, WPI, 16-17 June 2008

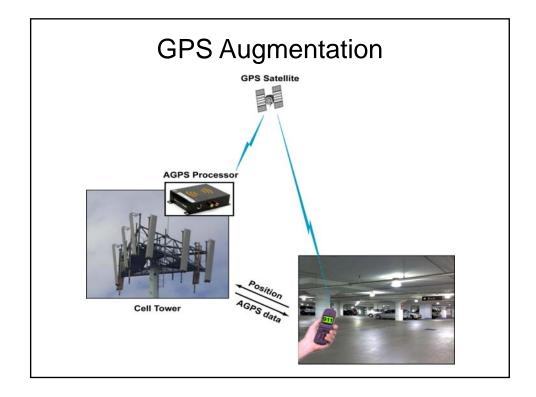
## GPS and GLONASS and Galileo and BeiDou, and still not enough!

**Pratap Misra** 

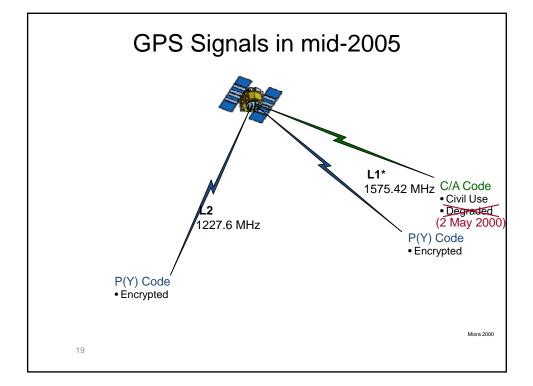


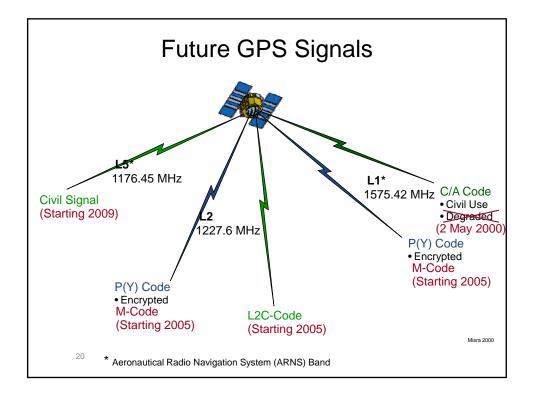






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