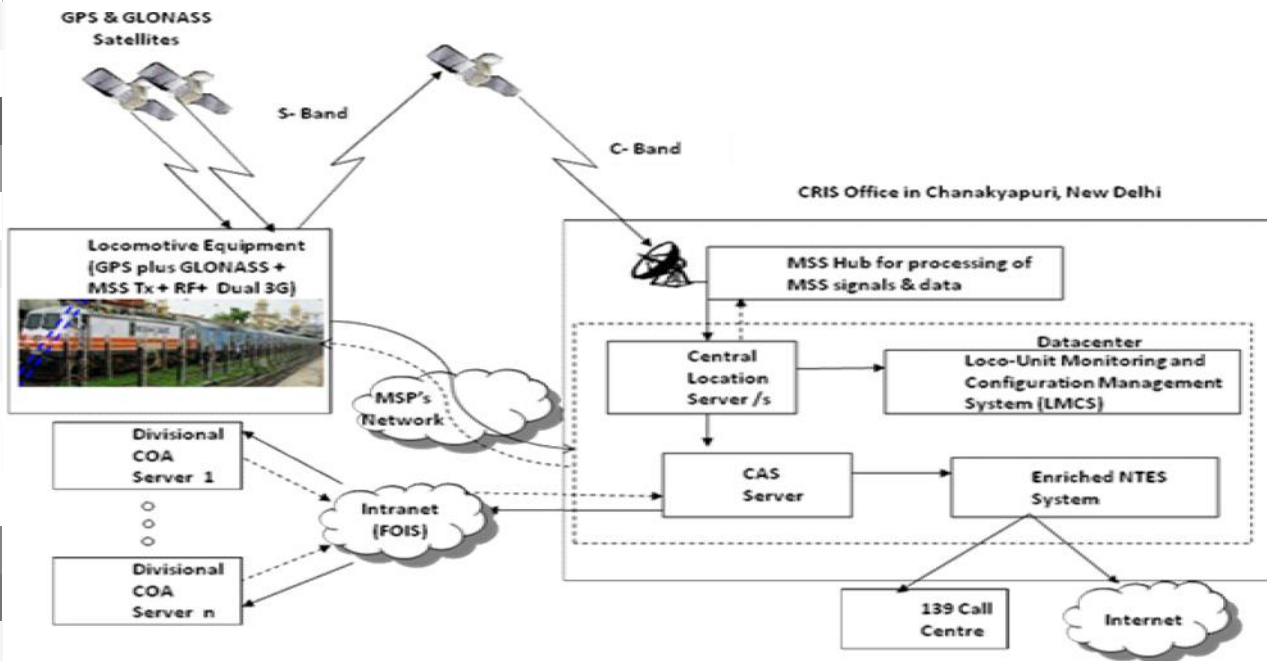# Real-time Train Information System for Indian Railways
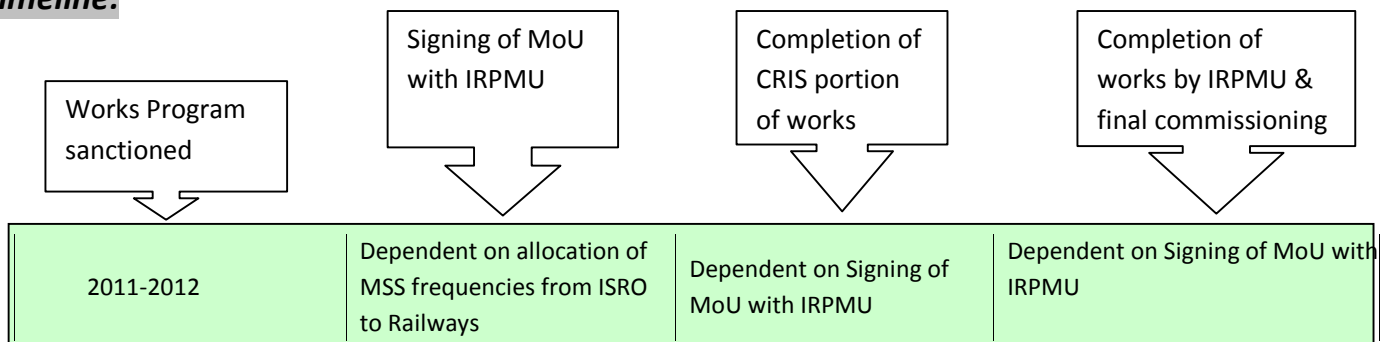
Architecture:

Scope of Work:

- Procurement, Installation & Commissioning of Locomotive Equipment on about 8700 locomotives
- Collection of GPS data (spatial co-ordinate data) of stations over entire IR territory
- Procurement, Installation and Commissioning of Central Datacenter infrastructure (all hardware & software components) including MSS Hub at CRIS, Chanakyapuri, New Delhi & Disaster Recovery (DR) Center Infrastructure at Secunderabad.
- Up-gradation of Central & Divisional COA hardware/software components
- Integration of RTIS system with Control Office Application (COA)

Timeline:

	Signing of MoU with IRPMU	Completion of CRIS portion of works	Completion of works by IRPMU & final commissioning
Works Program sanctioned			
2011-2012	Dependent on allocation of MSS frequencies from ISRO to Railways	Dependent on Signing of MoU with IRPMU	Dependent on Signing of MoU with IRPMU

Benefits of RTIS:

- Automatic capture of Train running Information & Automatic plotting of Control Charts in COA
- Stress free Work Conditions for Controllers
- Optimum Utilization of Resources
- Richer MIS for Management
- Better co-ordination
- Improved Customer Services

Project Status:

Real-time Train Information System (RTIS):- Technical specifications for the loco-equipment have been finalized and sent to IRPMU. Signing of MoU is pending with IRPMU. Due to criticality of operations, the project has been designed to utilize the alternate medium of transmission of data. In the entire geographic region of India no any communication media is covering 100%, therefore utilization of satellite is found necessary. Railway Board has requested ISRO to allocate sufficient frequencies on S-band. The project shall be progressed as soon as the frequencies get allotted.