

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1742**  
ANSWERED ON: 09/03/2021

**STATUS OF VARIOUS INITIATIVES UNDER MINISTRY**

1742. Shri K.J. Alphons:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) the objective of Integrated Cyber Physical Security;
- (b) the achievements of Data Science Research Initiative; and
- (c) the achievements of Internet of Things Research Initiative?

**ANSWER**

MINISTER OF HEALTH AND FAMILY WELFARE; MINISTER OF SCIENCE AND  
TECHNOLOGY; AND MINISTER EARTH SCIENCES  
(DR. HARSH VARDHAN)

- (a) Objective of Integrated Cyber Physical Security is to undertake research in the area of security challenges due to vulnerabilities, threats and attacks and mitigation thereof including analysis of existing security measures while identifying their limitations.
- (b) Achievements of Data Science Research Initiatives (DSRI): Under DSRI, a total of 31 number of R&D projects were sanctioned in the year 2020 with a duration of three years. Achievements as of now are developed algorithms and prototype tools for data analytics, modelling, visualization, curation, data dimensionality reduction and quality stamping.
- (c) Achievements of Internet of Things Research Initiatives (IoTRI): A total of 30 number of R&D projects were sanctioned under IoTRI during the year 2020 with duration of three years. Network Design and Architecture, Software Architectures and Middleware, Energy Efficiency, Clouds at the Edges, Design of trans-receiver, Advanced IoT communication architecture, Wearable electronic device using multiple sensors, Language-driven IoT tool Suite are some of the achievements that these projects have already achieved.

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