ETSI
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Government Initiative towards M2M

➢Digital India programme of the Government is aimed to take the pow to the next level. It has the power to empower the people for enriching t

➢Machine to Machine (M2M) is going to be a key enabler and particula in view of Government resolve to Digital India, Make in India and to de Cities.

➢It will impact every aspect of life of common man, resulting in sub tangible social and economic benefits to consumers, businesses, o government.
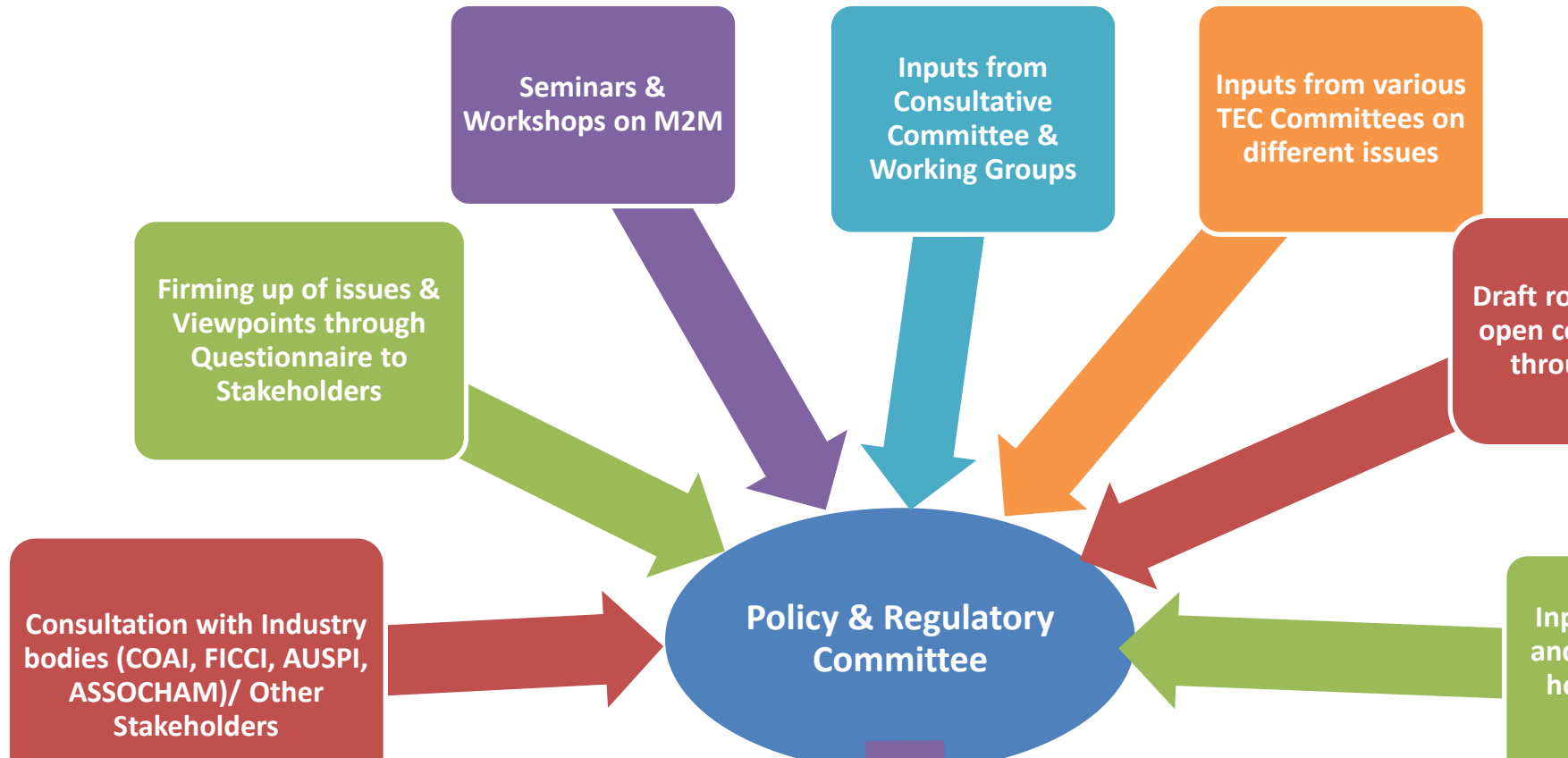
Government Initiative towards M2M

➢Government is making all possible efforts to bring complete eco-sys M2M and high speed Broadband

➢The Bhartnet project of DoT will get telecom infrastructure in place u panchayat making them ready to get full advantage of M2M.

➢Government is working towards bringing favourable policies and st M2M to boost the growth

➢DoT released the **'National Telecom M2M Roadmap'** with the o impetus to growth of M2M ecosystem

Challenges to M2M Rollout

➢Treatment of physical and digital infrastructure as two distinct, disjoint

➢Propriety implementations impeding full potential benefits from M2M

➢Lack of Common Standards challenge to Economy of scale, inter
resulting in cost escalation

➢ Different set of Regulatory environment for M2M communication.

➢Lack of Coordination among stakeholders

Process of M2M Roadmap Formulation

Seminars & Workshops on M2M

Inputs from Consultative Committee & Working Groups

Inputs from various TEC Committees on different issues

Firming up of issues & Viewpoints through Questionnaire to Stakeholders

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Consultation with Industry bodies (COAI, FICCI, AUSPI, ASSOCHAM)/ Other Stakeholders

Policy & Regulatory Committee

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M2M Roadmap: Focus Areas

➢Efforts towards Assimilation of various M2M standards

➢Outline of policy and regulatory approaches for M2M

➢Plans to boost M2M manufacturing as part of 'Make in India' initiative

➢Building M2M Communication Infrastructure

➢Road Ahead for M2M initiatives and Plans

Approach towards M2M Proliferatio

➢It is important that future M2M networks be built based on open, s interoperable standards preferably on IP networks. Not only it resu maintenance but also infrastructure sharing becomes easy and simple

➢Radio spectrum will play an important role in enabling future M2M most suitable option for last mile connectivity. Home and neighbourhoo are generally planned to use licence free bands to a greater extent.

➢M2M deployment in general consists of large number of sensors a connected onto the network This in itself brings lot many challenge opportunities.

Approach towards M2M Proliferatio

➢In order to take advantage of the opportunities M2M presents, ent
need to look beyond the "how" and instead think of "what-if" to
solutions to complex business problems

➢The smart sustainable cities need convergence of physical infrastr
buildings, roads, transportation, power etc with digital infrastructure co
smart management & common data centres

➢ Security and privacy has remained key concern in IT deployments
adoption of standards and relevant enabling of IT act provisions for acc

M2M Standardization activities

➢Telecom Engineering Centre(TEC) an arm of DoT, is working on Ind M2M standards/specifications in line with global standards

➢For this purpose TEC had formed working groups in following v finalization of standards

- ✓Power
- ✓Automotive
- ✓Health
- ✓Surveillance
- ✓M2M Gateway and Architecture
- ✓Home Appliances

Coordination among all stakeholders fo M2M Proliferation in India

➤DoT has constituted committees for coordination across various s engaged in M2M activities to have holistic view & synchronize the activ ministries / industry / standards organizations etc as a single window co

❑An apex Committee chaired by Hon'ble MOC&IT to address inte coordination

❑A Review Committee under Member (Technology) Telecom Co oversee the policy and regulatory issues

❑A Consultative committee under Advisor(Technology) for inte various industry associations/ academia/ standards organizations t guidelines

Future Action Plan of DoT

➢ To facilitate M2M communication standards from Indian Perspec[tive]
recognize such standards for India

➢ To address M2M policy and regulatory aspects related to MSP Regis[tration]
M2M specific KYC guidelines

➢ Support Human Resource and Capacity Building through making ava[ilable]
relevant technical content

➢ Technically support Pilots and/ or Proof of concept

Thank you