

# **AI ecosystem overview: trends, actors, drivers, challenges and opportunities**

*WIPO Conversations: AI PRIMER – AI TECHNOLOGY, MARKET AND PATENT TRENDS*

# AI Ecosystem

*“There is no consistent definition”*

## Two Perspectives on AI Ecosystem

- Development.
- Adoption: building the robust supporting capabilities for AI

# Development Ecosystem

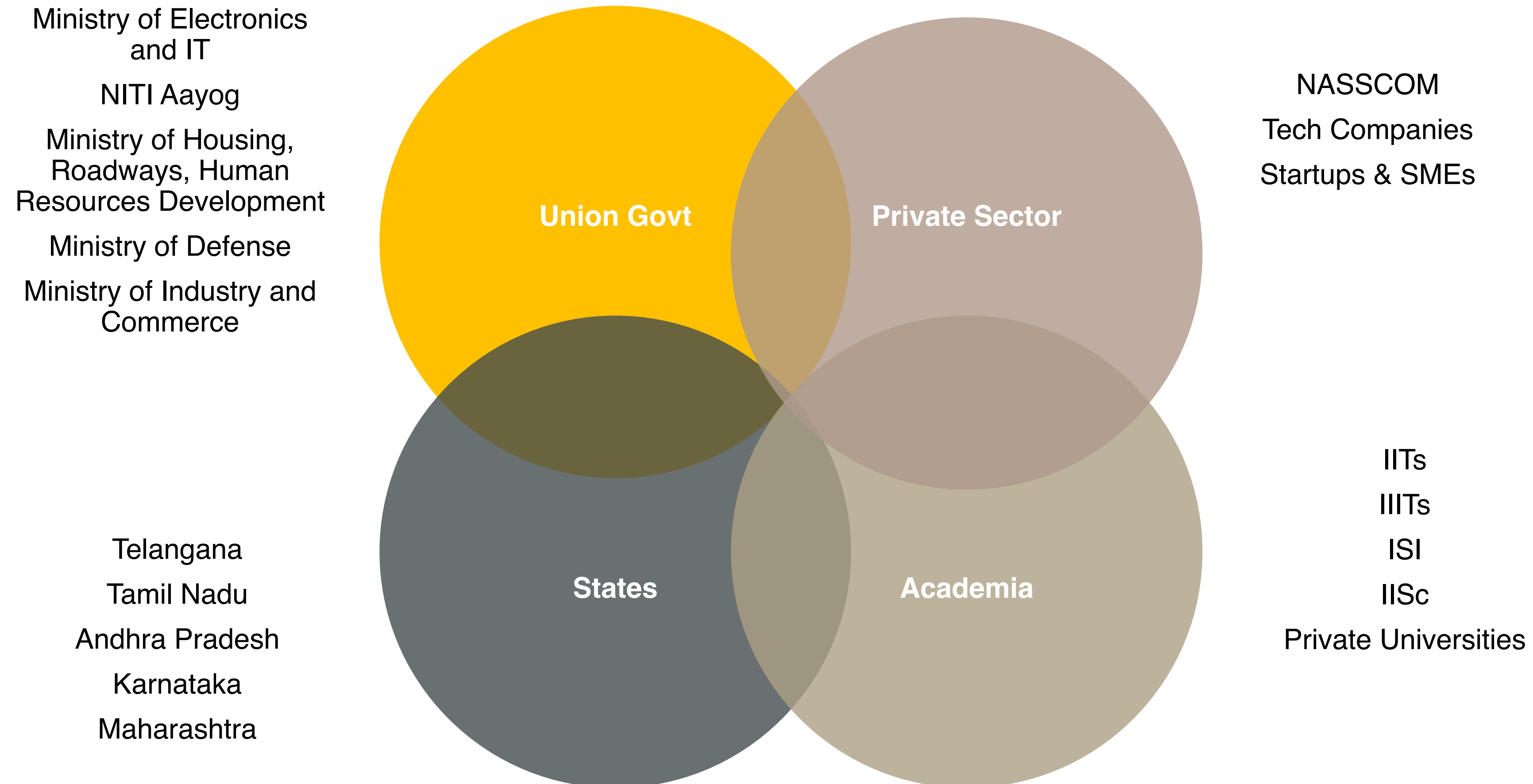
- AI hardware developments
- robotics
- computer vision
- natural language processing
- speech recognition
- machine learning
- deep learning

# Adoption Ecosystem

*Building the robust supporting capabilities for AI*

- skilled workforce and knowledgeable management
- the digital capability for capturing, handling, and exploiting data
- the technical foundation of trust
- security and reliability
- investment environment
- policy framework

# India's AI Ecosystem



## India's global standing AI Patents: Driving Emergence of India as an AI Innovation Hub in AI

- India is ranked 8th in the world for AI patent filing
- Consumer Electronics & Personal Computing Devices, and Healthcare lead the AI patent filings in India 3rd position in the AI conference publications
- 93% - Machine Learning is the most popular AI technique
- Computer Vision is the leading functional area with a share of 36%.
- Moreover, 63% of all granted patents belong to MNCs.
- 4th in terms of academic papers cited
- Fastest growing AI startup ecosystem with >50% Indian start-ups using AI
- talent pool with 500,000+ workers in AI, ML, and analytics employed by the industry