



'Make In India': ICTE Manufacturing Session

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DRAFT

ICTE Manufacturing: Our starting position

S.NO

STARTING POSITION

- 1
 - **Significant, sustained demand growth projected for electronics in India**
 - Demand for electronics manufacturing industry estimated at ~\$100B across all sub-sectors (2014)
 - Domestic consumption projected to grow at 10-15% CAGR across several sub-sectors, driven by increasing '*electronification*' and 'Digital India'
- 2
 - **Domestic manufacturing accounts for only 1/3rd of current demand today; and the gap is projected to increase significantly**
 - Investments significantly declined after ITA was signed (1996-97); made the sector broadly duty-free
 - Indian hardware industry production constitutes **only ~1.3% of total global production**
- 3
 - **Several key factors which inhibit supply side growth, need to be addressed urgently:**
 - Create a globally cost competitive platform for manufacturers to serve domestic demand, & drive exports
 - Increase ease of doing business (infrastructure, supply chain/ logistics, regulatory/ tax issues etc.)
 - Attract top global OEM/ ODM manufacturers & encourage Indian players to set-up scale manufacturing facilities
 - Develop an innovative, design-led ecosystem which accelerates growth (e.g. COEs, skilled manpower, ease of financing etc)
- 4
 - **The Make In India campaign has the potential to provide a dramatic fillip to the industry**, along with the National Policy on Electronics
 - Several companies which were not present in India have started investing (Continental, NIDEC, Magneti Marelli, Calsonic Kensai etc.); many others are on the anvil



Our aspiration for the future

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ASPIRATION

- 1 **Drive explosive growth in Electronics manufacturing:** Achieve “net zero” import over the next 10-15 years; enhance share of world trade to over 5%
- 2 **Create a robust, vibrant ecosystem across the value chain** for all electronics products, attracting investments from MNCs, domestic players and start-ups
- 3 **Build an entrepreneurial, “innovation-first” culture** which **leverages our core technical strengths** (e.g. systems design) **and skilled talent base** (e.g. India has the world’s 3rd largest pool of scientists and technicians)



Create a globally competitive electronics design and manufacturing industry to meet India's needs and serve the international market



Current issues plaguing the sector

S.NO	ISSUE	TYPE OF ISSUE
1	<p>Unattractive sector economics</p> <ul style="list-style-type: none"> Industry estimates suggest an average 6-8% cost disadvantage to manufacture in India (depending on product category) <ul style="list-style-type: none"> Lack of enabling infrastructure leads to high inward freight & conversion cost Imports are incentivized (vs domestic manufacturing) <ul style="list-style-type: none"> Inverted duty structure; Zero-Duty regime owing to Information Technology Agreement (ITA) and Free Trade Agreements (FTA) 	<p>Structural – Infra</p> <p>Budgetary</p>
2	<p>Ease of business relatively low</p> <ul style="list-style-type: none"> Simplify existing regulations and fast-track implementation, to drive faster turn-around times (e.g. customs certification, WPC licensing clearances etc) 	Policy
3	<p>Absence of component manufacturing ecosystem</p> <ul style="list-style-type: none"> Insufficient domestic demand (or export opportunities) for component manufacturers to set up base in India <ul style="list-style-type: none"> India has a geographical advantage and could be a significant manufacturing hub for EMEA (vs most other Asia countries) 	Policy
4	<p>Limited innovation</p> <ul style="list-style-type: none"> Lack of collaborative testing/ R&D programs with the industry Absence of accelerator programs or easy financing for start-ups <ul style="list-style-type: none"> Lack of professionally managed, VC (or govt.) funding to invest in R&D 	Structural
5	<p>Insufficient “industry ready” talent</p> <ul style="list-style-type: none"> Insufficient focus on electronics in post-graduation courses Labour requires significant re-skilling for absorption (e.g. electronics assembly lines) 	Policy

India’s trade deficit on account of electronics import could well exceed oil by 2020, unless we address these issues





'Make in India' initiatives: *Progress till date*

1

Promote manufacturing ecosystem

- **Modified Special Incentive Package Scheme (M-SIPS)**, provides CAPEX subsidy of 20-25%
 - 28 proposals approved e.g. Samsung, Bosch, Nidec, Tata, Tejas (Rs. 4,455 Cr planned investment)
 - 26 in pipeline (Rs. 14,371 Cr planned investment)
- **Approved 2 Electronic Manufacturing Clusters (EMCs)** which provide financial support for 50-75% common infrastructure; 12 EMCs approved in principle
- **Preferential Market Access (PMA) policy being implemented;** Cabinet Secretary monitoring to speed up implementation (held meeting on 26th Nov, 2014)
 - 3 additional products (32 total), notified for preference to domestic manufacturers (e.g. Biometric Access Control System, finger print sensor)
- **Two hi-tech incubators dedicated for electronics approved (Delhi, Patna)** with est. outlay of **~75 Cr**; one in pipeline (Kochi), with est. outlay of **~35 Cr**.

2

Invest in Human Resource Development

- **Special PhD scheme launched** for Electronics and IT – 228 PhDs already allocated; target of **1500 additional PhDs in Electronics** in 5 years
- Scheme for setting up **7 new Electronics & IT Academies approved** (Nov 2014)
- Phase 3 of **Special Manpower Development Programme** for VLSI and Chip Design **approved** (Dec 2014)
- **Financial assistance to the States/UTs for Vocational Training approved; target of 4L individuals**

3

Stimulate sector economics

- **Inverted duty structure rationalized** in select Electronic products/components
 - E.g. LCD & LED TV, Colour Picture Tubes, EVA & PVC Sheets, Set Top Boxes, Telecom products
- **Electronic Development Fund policy approved** to support early stage/ angel and venture capital funds (Dec 2014)

4

Streamline standards

- **15 additional products** notified for testing and certification to curb unsafe and grey market imports (Nov 2014)



- A **preliminary set of recommendations from the industry** was developed, **after discussions with several companies and industry associations**
- These views were shared and **discussed with senior officials from DeitY and DoT, over the last week**
- **Four key initiative thrusts have been highlighted, with a few specific policy recommendations**
- We are **seeking additional input from the industry**, to further refine and flesh these key initiatives
- These **suggestions will be deliberated by the government, and further actions taken**



Four key initiative thrusts are suggested, to drive electronics manufacturing on an urgent basis

1

Create a vibrant, innovation-led ecosystem

2

Stimulate sector economics; attractive incentives to develop a globally cost competitive environment

3

Streamline existing regulations to improve ease of doing business

4

Attract Top global OEMs and component manufacturers



Short term initiatives (over next 1 year)

S. NO.	DESCRIPTION	TYPE OF INITIATIVE	RESPONSIBILITY
1	<p>Create a vibrant, innovation-led ecosystem</p> <ul style="list-style-type: none"> Approve and implement Fabless chip design policy for promoting product development Operationalize Electronic Development Fund (EDF), including a dedicated venture fund for telecom 	<ul style="list-style-type: none"> Policy Process 	<ul style="list-style-type: none"> DietY, Ministry of Finance
2	<p>Stimulate sector economics</p> <ul style="list-style-type: none"> Extend Focus Product Scheme (FPS) to additional electronic products Allow deferred payment of excise duty for 7 years to manufacturers (threshold value addition) Extend Income Tax Act Section 35 AD benefits to electronics & telecom equipment manufacturers Reform inverted duty structure 	<ul style="list-style-type: none"> Budgetary, Policy 	<ul style="list-style-type: none"> Ministry of Finance
3	<p>Ease of doing business</p> <ul style="list-style-type: none"> Enable self-certification for custom clearances of zero duty components and inputs Ensure that licensing processes for WPC and SACFA clearances are simplified and made time-bound 	<ul style="list-style-type: none"> Policy 	<ul style="list-style-type: none"> Ministry of Finance, DoT
4	<p>Attract Top global OEMs and component manufacturers</p> <ul style="list-style-type: none"> Develop a comprehensive 'package' to attract the top global companies to Make in India <ul style="list-style-type: none"> Approve a "Mega policy" to attract large investors Develop a safe harbour policy and advance pricing agreements (APA) to reduce transfer pricing disputes 	<ul style="list-style-type: none"> Process 	<ul style="list-style-type: none"> Department of Commerce, Ministry of Finance



Initiatives with medium term impact (over next 3 years)

S. NO.	DESCRIPTION	TYPE OF INITIATIVE	RESPONSIBILITY
1	<p>Create a vibrant, innovation-led ecosystem</p> <ul style="list-style-type: none"> • Setup National Centres of Excellence in emerging areas like Micro and Nano systems, IoT • Leverage Defense procurement of Electronics to promote defense manufacturing 	<ul style="list-style-type: none"> • Budgetary, Policy • Policy 	<ul style="list-style-type: none"> • DietY, DoD, DoPD
2	<p>Stimulate sector economics</p> <ul style="list-style-type: none"> • Extend interest subvention scheme to telecom equipment manufacturing companies to offset high finance cost • Setup duty free component trading and warehousing zone (component FTWZ) to facilitate ease of raw material supply 	<ul style="list-style-type: none"> • Budgetary, Policy • Budgetary, Policy 	<ul style="list-style-type: none"> • Ministry of Finance • DeitY, Department of Commerce
3	<p>Ease of doing business</p> <ul style="list-style-type: none"> • Develop a legal framework for fast approval of medical electronic devices 	<ul style="list-style-type: none"> • Policy 	<ul style="list-style-type: none"> • Dept. of Health & Family Welfare, Dept. of Pharma, DeitY
4	<p>Attract Top global OEMs and component manufacturers</p> <ul style="list-style-type: none"> • Encourage top global OEM and Component makers (LCD/Lithium Ion/PCB/etc.) to manufacture in India 	<ul style="list-style-type: none"> • Policy 	<ul style="list-style-type: none"> • DeitY



BAIN & COMPANY 