





Secretaría de Innovación Ciencia y Tecnología

The Role of Government in Developing The Innovation Ecosystem in Jalisco, Mexico

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Ministry of Innovation, Science and Technology

Background, Jalisco's IT and electronics sector



Electronic

Manufacturing Automotive





Animation





- 12 OEM'S
- 14 CEM'S / EMS (electronic manufacturers)
- + 380 specialized providers
- 20 BPO / ITO centers
- 36 design centers
- 4 reserach centers
- 150 sofftware companies
- 2 software parks
- 2 high tech incubators





"metables

Last 14 years: 4,560m USD in FDI 147,560m USD in exports



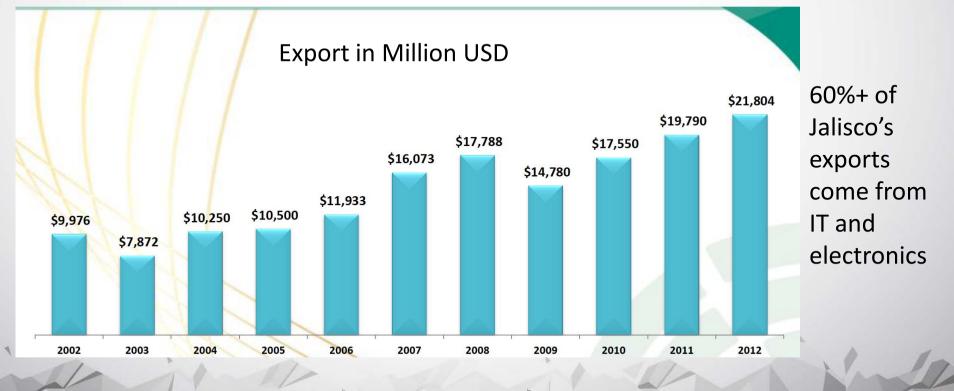


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Employment and exports of IT and electronics sector

Job creation (2013 estimates)

- Manufacturing 73,000 jobs.
- BPO, ITO & Software 24,000 jobs.
- Electronic design, 2,000 jobs.
- Aerospace 1,500 jobs.
- Creative industries 850 1500 jobs.



A Growing Innovation Ecosystem

- 30+ meetups of innovation and startups = 5000 members of the community
 - Around 8 high value startups
 - Around 50-100 initial phase startups
- 4 venture capital funds
- Nothing of this existed 4 years ago.





How do we leverage the current IT/electronics industry and the emerging innovation ecosystem to create an innovation based industry?







Ministry of Innovation, Science and Technology

Ministry of Innovation, Science and Technology of Jalisco is new: 1.5 years old, created in this administration.

Minister Jaime Reyes comes from an industry background.

More than half of the directors of the ministry have an industry background.

Budget: 4m USD for operations (state). 15m USD for projects, 25m USD for innovation grants (federal).

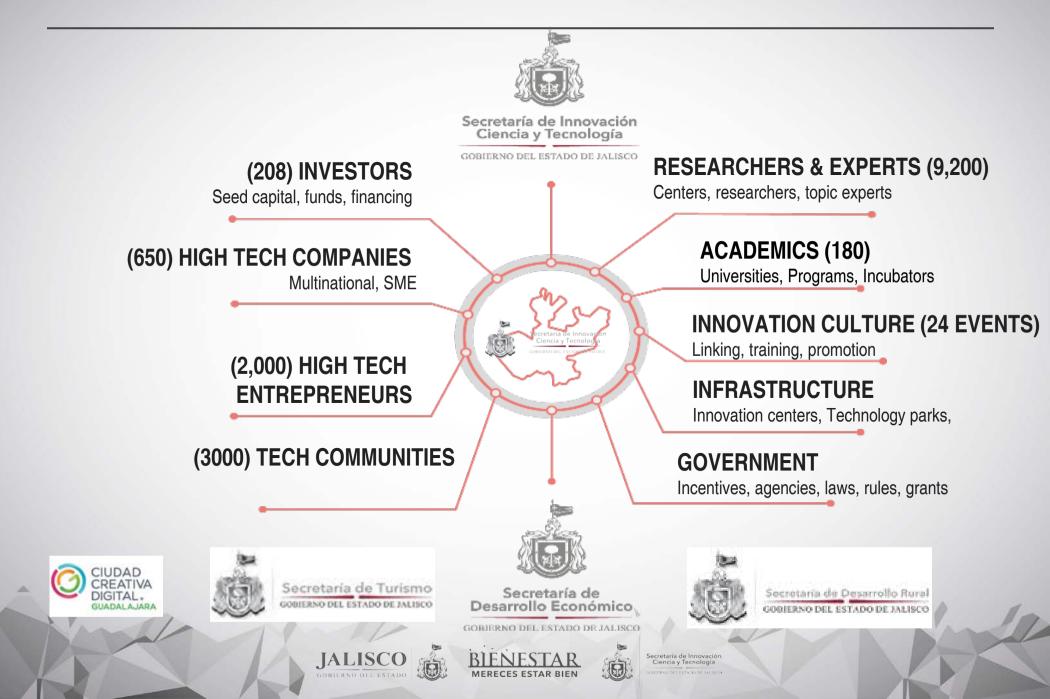
The smallest staff of all state ministries, 70 persons.



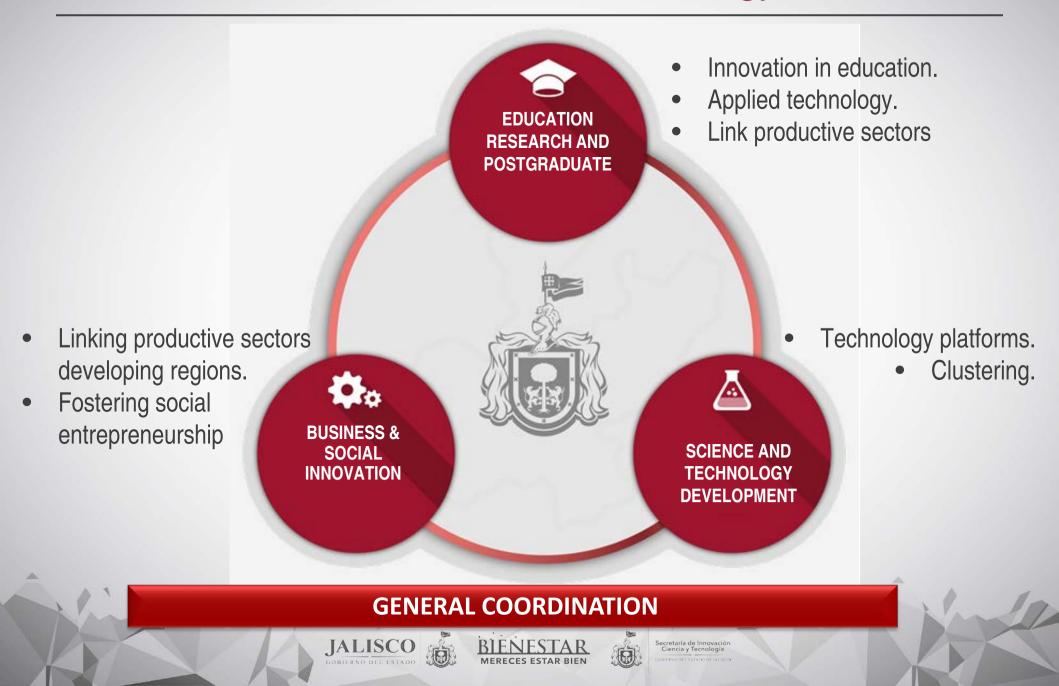


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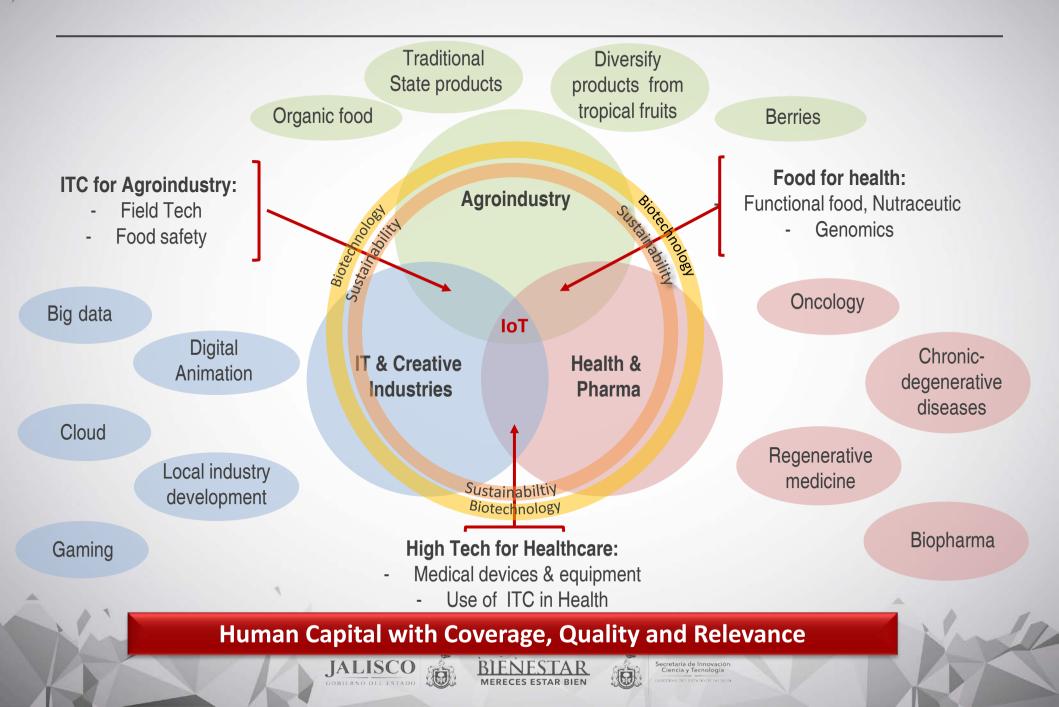
Innovation & Technology Ecosystem



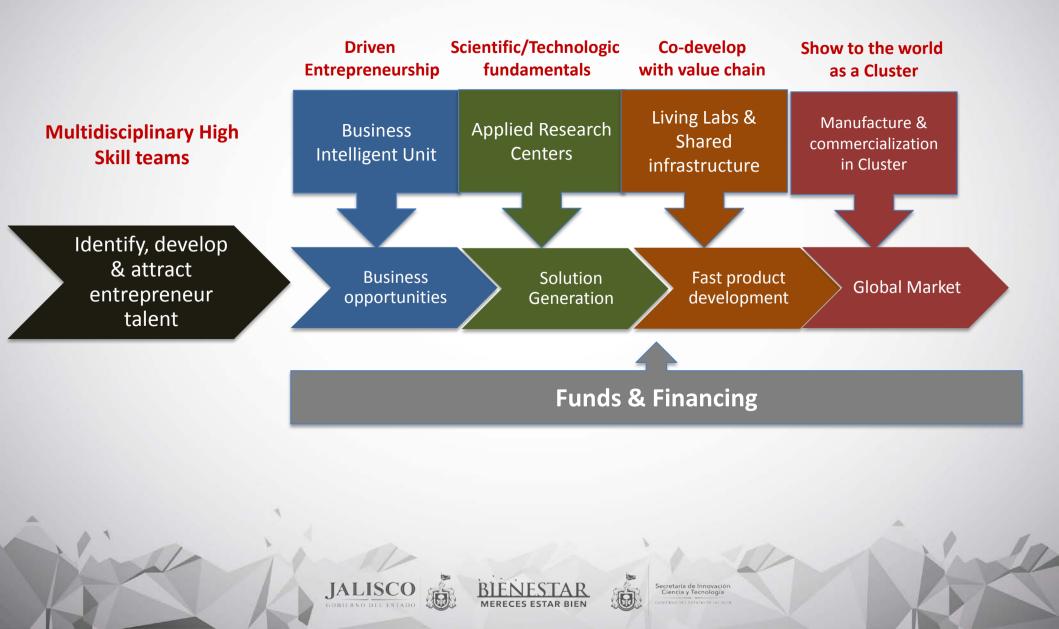
Innovative Dynamic Flow Model of The Ministry of Innovation, Science and Technology of Jalisco



Strategic Technology Road Map



Jalisco High Tech entrepreneurship model



Regional Strategic Projects

- **1. CCD**
- 2. CIADE/Entrepreneurship
- 3. Social & Technologic Innovation
- 4. Internet of Things cluster
- 5. Agro industrial cluster





- 6. Health science cluster
- 7. Dual& virtual education
- 8. Forestry cluster
- 9. Fashion & Design cluster10. Digital Strategy





Ciudad Creativa Digital



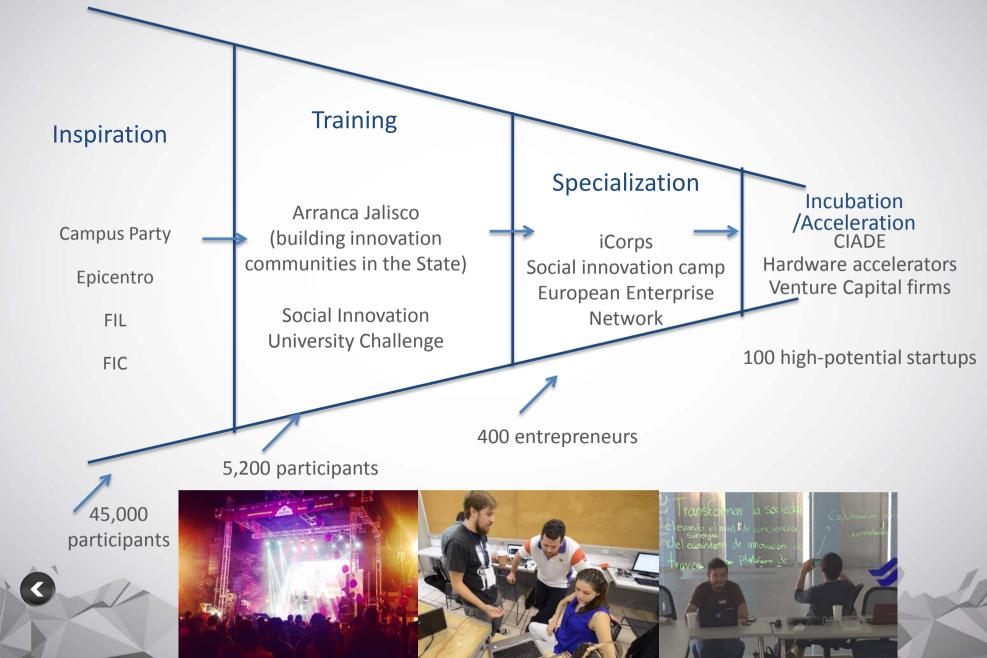
CCD is a renovation program that will convert Guadalajara over 40 acres of downtown into a Smart city where creative work and culture create a world class high tech hub





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Innovation Culture



Epicentro 2014



100

19 de noviembre Chapultepec

ANDADOR CHAPULTEPEC + AŬITA + FONDO DE CULTURA ECONÓMICA + HACKER GARAGE + LA NACIONAL + NEVERMIND +



epicentro

20 de noviembre Tlaquepaque

ARDÍN HIDALGO + CASA HISTÓRICA + CENTRO CULTURAL EL REFUGIC





21 de noviembre Zapopan

PLAZA DE LAS AMÉRICAS JUAN PABLO II + CAFÉ CANDELA + CARMEN CANTINA + INSTITUTO DE CULTURA + DOÑA GABINA ESCOLÁSTICA + MUSEO DE ARTE DE ZAPOPAN



Social & Technologic Innovation

Innovation Events In Jalisco, 30,500 participants in 2014.

a) MIT Enterprise Forum (24 -25 March 2014): Organization, 1000 Entrepreneurs participants.

b) Startup Weekend Mega (22-25 May 2014): Co-organization, 800 Entrepreneurs developers.

c) Campus Party (22-27 July 2014): Participation in the event, 10,000 participants, entrepreneurs where they had a challenge to create a product to satisfy a social need.

d) Innovation workshops (4-5 Sept. 2014): Organization, event where more than 1,700 national & international experts in innovation & competitiveness got together to share their experiences.

e) WCIT (29 Sept. – 1 Oct. 2014): Participation in the event, with an assistance of more than 3,000 delegates from 80 countries leaders in Information Technologies.

f) Epicentro (18 – 21 Nov 2014): Massive event, 14,000 assistants to inspire an innovation culture in the society. Conferences + Workshops + Concerts + Datathon.



Social & Technologic Innovation

2.- Innovation Paths- Connecting entrepreneurship, industry & society

- Interrelated activities to discover innovation opportunities
- Objective: 1) Create learning experiences where entrepreneurs and businessmen discover de possibilities of innovation. 2) Create collaboration networking among industrial companies.

•Entrepreneurs know the

Experts

workshops

problems.

Start creating

relationships.

To be done with vertical industries and social problems.



First prototypes

- Team creation
- •Collaboration with SW

Thematic Startup

Bootcamps

 Determine viability of startups

 Collaborating with communities

Community Partners:

Co-creation

sessions

• Discover innovation

•Entrepreneurs + experts +

opportunities

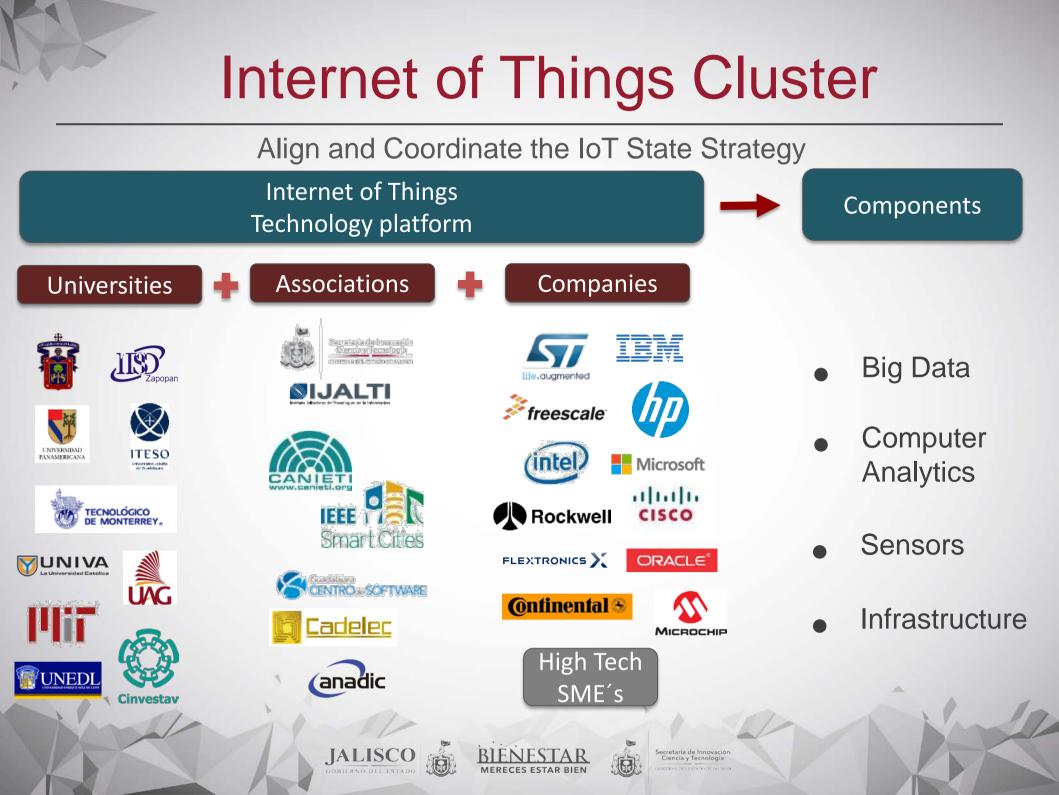
Design thinking

users





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Agro industrial Cluster

- **Pilot plant for extraction of active** components
 - Increase added value by moving up the end of the supply chain
- **Food Safety Lab**
 - Services for international food safety fostering exports

Intelligence system for Agriculture

 Data analytics for improving strategic commercial decisions in Agriculture









Health science cluster

STRATEGIC PROJECTS:

Stage 1

• Research focused on Obesity & Diabetes.

Stage 2

Medical School & Advanced Research
Centers.

Stage 3

• Medical Entrepreneurs.







Forestry Cluster

Present	Future
Most product imported	Substitute imports and starts exports
Low value product	Increase value added
Product excessive waste	Research in usage of the whole products
Over regulation prohibits ecologic development in forests	Removing obstacles through Public Policies





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0

Dual & Virtual Education

Change Paradigm

COMPANY

- Flexible and Dynamic (every Technology and Market cycle)
- Market driven

- Processes

- Strongly Practical

ACADEMY

- Rigid (large renewal periods)
- Large manage processes.
- Quality and Relevance not proved
- Mostly theorical
- Curricula

DUAL EDUCATION

- Formation (Values, Discipline, Hard Sciences)
- Market and tendencies driven
- Dynamic
- Flexible
- Problem solving Competences

IERNO DEL ESTADO



Secretaría de Innovación Ciencia y Tecnología GOBIERNO DEL ESTADO DE JALISCO

Digital Agenda

DIGITAL JALISCO

INNOVATION & TECHNOLOGIES FOR WELLBEING

DIGITAL GOVERNMENT

TRUSTWORTH, RISPONSABLE & EFECTIVE

Digitalizing for a closer, open & transparent government DIGITAL SOCIETY WITH EQUITY IN OPORTUNITIES

Digitalizing for equity in social inclusion

DIGITAL ECONOMY

SUSTAINABLE, PROSPEROUS & INCLUSIVE

Digitalizing for an innovative & competitive economy





Secretaría de Innovació Ciencia y Tecnología CORITENO DEL ESTADO DE JALISO

Digital Agenda

PILLARS	COMPONENTS, CHALLENGES & STRATEGIES
ity IIs a	Digital Society
internet ications & skills society	Inclusion y social equity/Strategic social coverage
es if broadband internet es & digital applications ces & digital applications Digital capacities & skills the information society	Educational quality & coverage / Strategy of Digitalizing Education
	Quality Public Health/ Digital Health Strategy
	Digital Inclusion / Digital Skills campaign
	Digital Economy
ection to servic Contents, servic Facilitator for	Sustainable economic growth / High Tech Strategy
Connection to Contents, Facilitat	Competitive SME's / Business Digitalization Strategy
	Strategic Sectors acceleration / Technologic Platforms
	Digital Government
	Closer government / Digital open government Strategy
	Government transformation / Simplify administration
	Effective Public administration / Assimilate digital government
JALISCO	BIENESTAR MERECES ESTAR BIEN

Open Questions

- How to move up the value chain the current electronics and IT industry?
- How to create an innovation based industry that helps bridge the inequality gap?
- How to foster technology that creates positive innovations for the Mexican society?





Secretaría de Innovación Ciencia y Tecnología GOBITENO DEL ESTADO DE JALISCO