



# THE IMPORTANCE OF SPACE ACTIVITIES FOR THE SOCIO-ECONOMIC DEVELOPMENT OF MEXICO

HLF “SPACE AS A DRIVER FOR SOCIO-ECONOMIC SUSTAINABLE DEVELOPMENT”

DUBAI ... NOVEMBER 23, 2016

# Mexico in numbers

## LAND & POPULATION

14<sup>TH</sup> COUNTRY BY TOTAL AREA (1.9 MILLION KM<sup>2</sup>)

120 MILLION INHABITANTS



## ECONOMY & SOCIAL INDICATORS

15<sup>TH</sup> ECONOMY (GDP 2015)

**The World Bank**

2<sup>ND</sup> HAPPY PLANET INDEX

**HPI, 2016**

4<sup>TH</sup> BEST PLACE FOR EXPATS

**Expat Insider 2016**

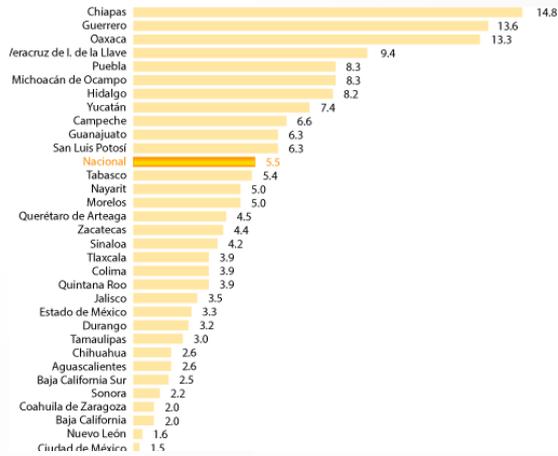
2<sup>ND</sup> COUNTRY WITH THE LARGEST  
DIASPORA POPULATION (2015)

**International Migration Report, 2015**

74<sup>TH</sup> HUMAN DEVELOPMENT INDEX  
**UNDP**

# Mexico in numbers (II)

## ILITERACY



INDIGENOUS POPULATION: 7.4 MILL

46.2% LIVES IN POVERTY  
**CONEVAL**

71<sup>ST</sup> INEQUALITY INDEX (GINI)  
**UNDP**

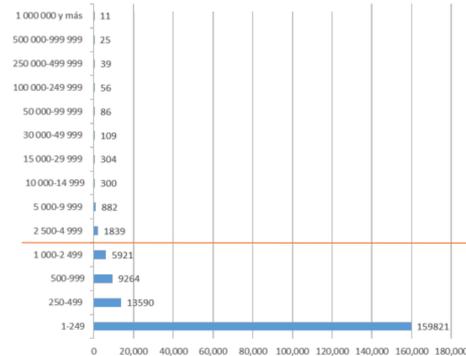
## GEOGRAPHICALLY DISPERSED POPULATION

### INEGI

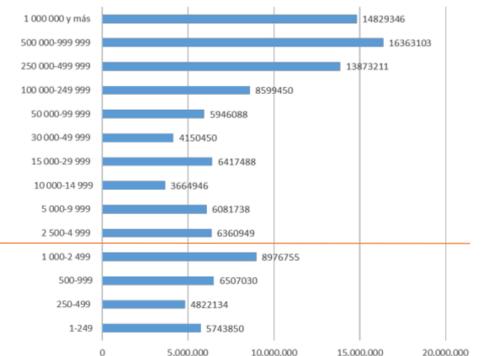


THIS IMAGE AND ALL OTHER IMAGES ARE THE PROPERTY OF INEGI. ALL RIGHTS RESERVED.

### Localities



### Population



### INEGI

# The Mexican Space Agency

## MISSION

**AEM will be an enabler to allow that Mexico could be a recognized nation in the development and use of space science and technology to improve the quality of life of all Mexicans**

## VISION

**Transform Mexico into a country with scientific activities and world class space technology developments, focused on social needs and articulated to leading edge industrialization programs, contributing to the country's competitiveness**



### SPACE PLAN

### MEXICO'S ROAD MAP OF THE SPACE INDUSTRY 2030



(Segunda Sección) DIARIO OFICIAL Martes 14 de abril de 2015

#### AGENCIA ESPACIAL MEXICANA

ACUERDO por el que se expide el Programa Nacional de Actividades Espaciales.

Al margen un sello con el Escudo Nacional, que dice: Estados Unidos Mexicanos.- Secretaría de Comunicaciones y Transportes.- Agencia Espacial Mexicana.

#### ACUERDO POR EL QUE SE EXPIDE EL PROGRAMA NACIONAL DE ACTIVIDADES ESPACIALES

Con fundamento en los artículos 22, 24 y 29 párrafo cuarto de la Ley de Planeación; 59 fracciones II y XII de la Ley Federal de Entidades Paraestatales; 12 fracciones I, XII y XIII de la Ley que crea la Agencia Espacial Mexicana y 16 del Estatuto Orgánico de la Agencia Espacial Mexicana, y

CONSIDERANDO



# Current projects and the SDG



END POVERTY IN ALL ITS FORMS EVERYWHERE

1.2

BY 2030, REDUCE AT LEAST BY HALF THE PROPORTION OF MEN, WOMEN AND CHILDREN OF ALL AGES LIVING IN POVERTY IN ALL ITS DIMENSIONS ACCORDING TO NATIONAL DEFINITIONS

**MEXICO HAS A MULTIDIMENSIONAL POVERTY MEASUREMENT:**

INCOME  
53.2%

EDUCATION GAP  
18.7%

ACCES TO HEALT SERVICES  
18.2%

ACCES TO SOCIAL SECURITY  
58.5%

ACCES TO FOOD  
23.4%

ACCES TO BASIC SERVICES IN THE HOUSEHOLD  
21.2%

QUALITY AND SPACES OF THE HOUSEHOLD  
12.3%



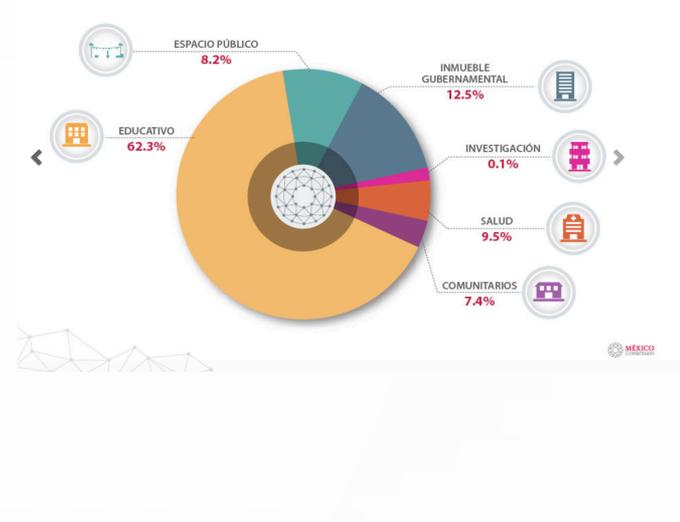
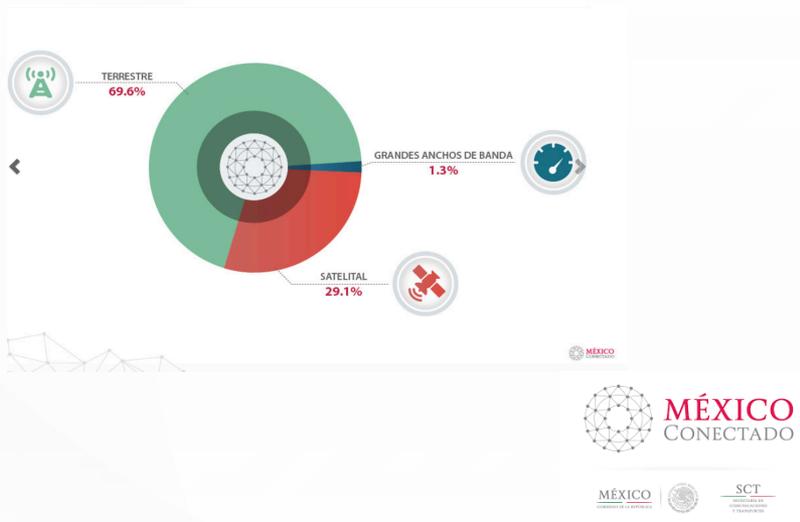
1.4

BY 2030, ENSURE THAT ALL MEN AND WOMEN, IN PARTICULAR THE POOR AND THE VULNERABLE, HAVE EQUAL RIGHTS TO ECONOMIC RESOURCES, AS WELL AS ACCESS TO BASIC SERVICES, OWNERSHIP AND CONTROL OVER LAND AND OTHER FORMS OF PROPERTY, INHERITANCE, NATURAL RESOURCES, APPROPRIATE NEW TECHNOLOGY AND FINANCIAL SERVICES, INCLUDING MICROFINANCE

**Internet access at home: 39.2%**  
**% of individuals using internet: 57.4%**  
 ITU



MÉXICO CONECTADO



<http://mexicoconectado.gob.mx>



## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

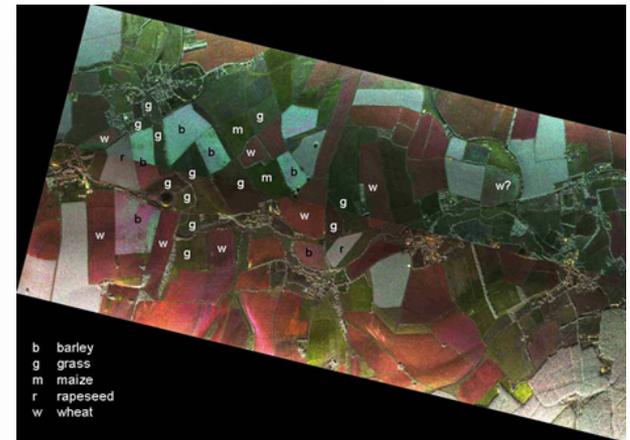
### 2.4

By 2030, ENSURE SUSTAINABLE FOOD PRODUCTION SYSTEMS AND IMPLEMENT RESILIENT AGRICULTURAL PRACTICES THAT INCREASE PRODUCTIVITY AND PRODUCTION, THAT HELP MAINTAIN ECOSYSTEMS, THAT STRENGTHEN CAPACITY FOR ADAPTATION TO CLIMATE CHANGE, EXTREME WEATHER, DROUGHT, FLOODING AND OTHER DISASTERS AND THAT PROGRESSIVELY IMPROVE LAND AND SOIL QUALITY

AEM

AGENCIA  
ESPACIAL  
MEXICANA

## Fostering the Adoption of Precision Agricultural Methods in Mexico for improved management of resources and Food Security



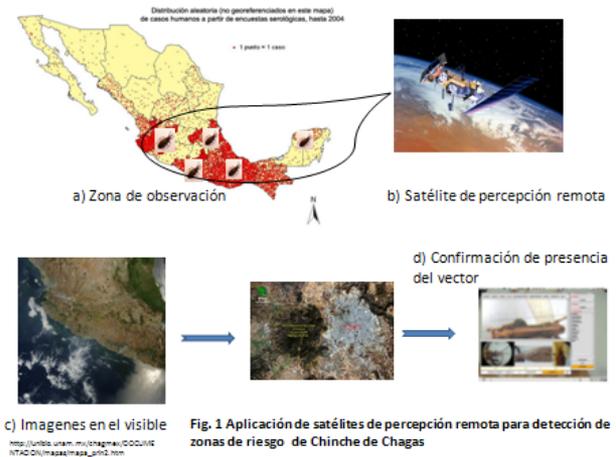
# 3 GOOD HEALTH AND WELL-BEING



## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

3.D STRENGTHEN THE CAPACITY OF ALL COUNTRIES, IN PARTICULAR DEVELOPING COUNTRIES, FOR EARLY WARNING, RISK REDUCTION AND MANAGEMENT OF NATIONAL AND GLOBAL HEALTH RISKS

### Tele epidemiology Chagas





# ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

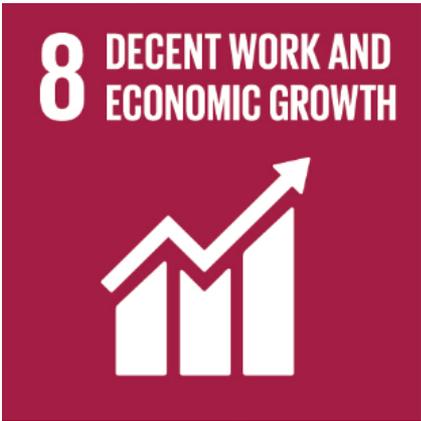
## 4.1

BY 2030, ENSURE THAT ALL GIRLS AND BOYS COMPLETE FREE, EQUITABLE AND QUALITY PRIMARY AND SECONDARY EDUCATION LEADING TO RELEVANT AND EFFECTIVE LEARNING OUTCOMES

## RED EDUSAT



**38,498 reception centers for tele-education**

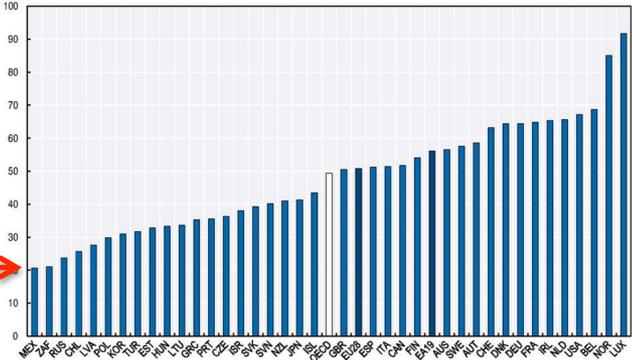


PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

**8.2**  
 ACHIEVE HIGHER LEVELS OF ECONOMIC PRODUCTIVITY THROUGH DIVERSIFICATION, TECHNOLOGICAL UPGRADING AND INNOVATION, INCLUDING THROUGH A FOCUS ON HIGH-VALUE ADDED AND LABOR-INTENSIVE SECTORS

**Low productivity**

Figure 2.7. Labour productivity, 2014  
 GDP per hour worked, total economy, US dollars, current prices and current PPPs



OECD

**PNB average annual growth rate:  
 2.6% vs 13 % aerospace industry**

FEMIA, 2014

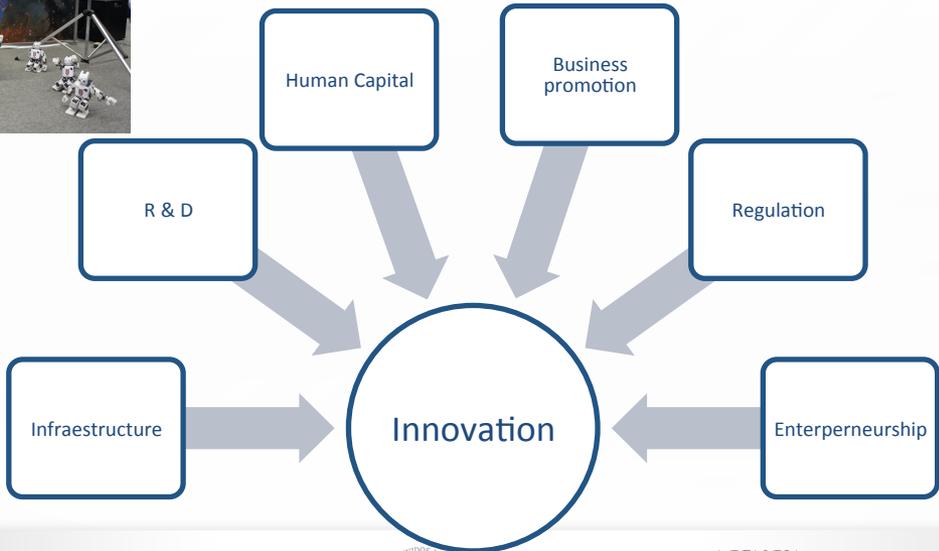
**430 companies  
 >31,000 employees**

FEMIA, 2014



# BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

**9.5** ENHANCE SCIENTIFIC RESEARCH, UPGRADE THE TECHNOLOGICAL CAPABILITIES OF INDUSTRIAL SECTORS IN ALL COUNTRIES, IN PARTICULAR DEVELOPING COUNTRIES, INCLUDING, BY 2030, ENCOURAGING INNOVATION AND SUBSTANTIALLY INCREASING THE NUMBER OF RESEARCH AND DEVELOPMENT WORKERS PER 1 MILLION PEOPLE AND PUBLIC AND PRIVATE RESEARCH AND DEVELOPMENT SPENDING



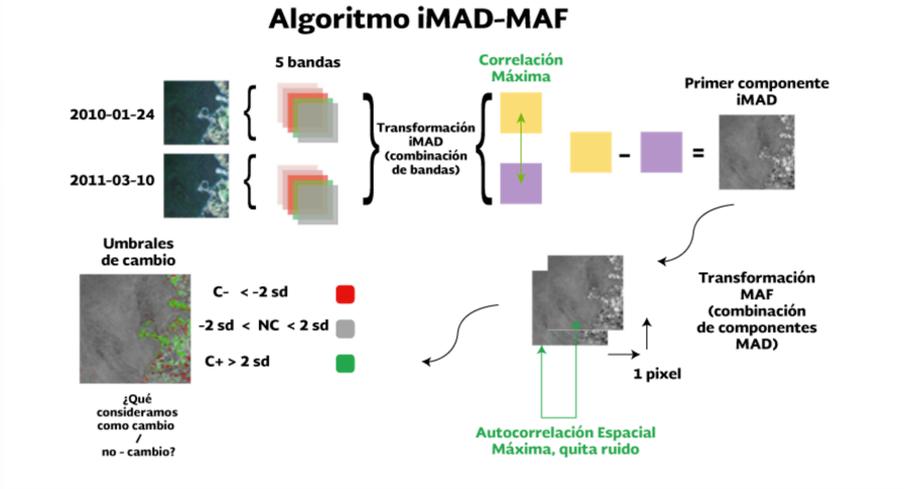


# TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

## 13.2 INTEGRATE CLIMATE CHANGE MEASURES INTO NATIONAL POLICIES, STRATEGIES AND PLANNING

**MAD-Mex**

CENTRO de  
EXCELENCIA VIRTUAL en  
**MONITOREO FORESTAL**



<http://www.monitoreoforestal.gob.mx/mad-mex/#MAD-Mex>



PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

15.1

BY 2020, ENSURE THE CONSERVATION, RESTORATION AND SUSTAINABLE USE OF TERRESTRIAL AND INLAND FRESHWATER ECOSYSTEMS AND THEIR SERVICES, IN PARTICULAR FORESTS, WETLANDS, MOUNTAINS AND DRY LANDS, IN LINE WITH OBLIGATIONS UNDER INTERNATIONAL AGREEMENTS

## Earth Observation for the Preservation of Ecological Bacalar Corridor IPSP



**To have more fair societies and achieve the SDG's using space:**



**Engage actors from other communities & disciplines**



**Intensify international cooperation (South-South)**



**An adequate legal framework and financial support**