2014 FIDIC – GAMA ANNUAL CONFERENCE LOCAL INVOLVEMENT IN MAJOR PROJECTS FOR SUSTAINABILITY MAPUTO: 23 TO 26TH MARCH 2014



Group of African Member Associations



of Consulting Engineers



Association of Consultants Mozambique

Developing Local Competencies For Large Projects in Morocco

Amine AMAR FMCI Morocco

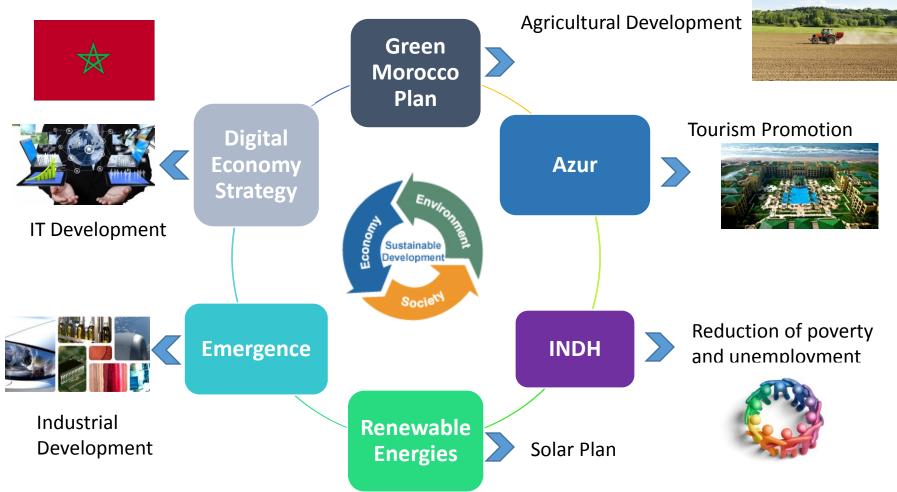
Contents

- Brief outlook of main Moroccan Strategic Plans of Development
- Large scale Infrastructure Projects
- The Consultling Engineering : a Booming Sector
- Main Development Challenges of CE
- Action Plan to meet the challenges





Moroccan Strategic Plans of Development





The Government's strategic choices also focus on infrastructure development



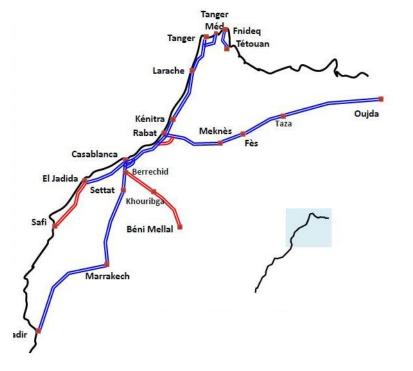
Transportation Sector : Highways & Expressways

- 2008-2015 : NHP 1 : 1800 km of Highways
- 2015-2030 : NHP 2 : 1500 km of Highways



• 2012-2016 : 600 km of Expressways

(out of 1100 Km)







Transportation Sector : Roads

- 1995-2005 : National Rural Roads Programme NRRP 1 : 11 300 km constructed Reached Rural access index (RAI) : 54%
- 2005-2013 : NRRP 2 : 13 100 Km constructed / Reached RAI : 80%
- 2005 2012 : Construction of mediterranean coastal road (600 Km)











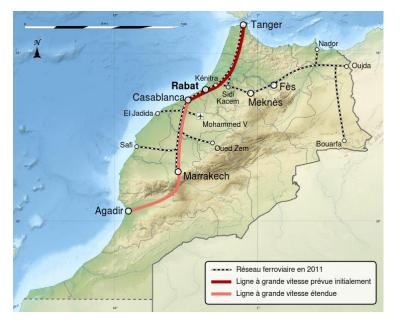




Transportation Sector : Railways

- 2005 2015 : Upgrading and modernising existing railway lines : 2110 Km with a maximum speed of 160 km/h
- 2008 2020 : High speed Railway Line Tanger Casablanca (350 km) under contruction
- By 2035 : 1500 Km of High Speed Railway Lines will be constructed





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Transportation Sector : Maritim Development

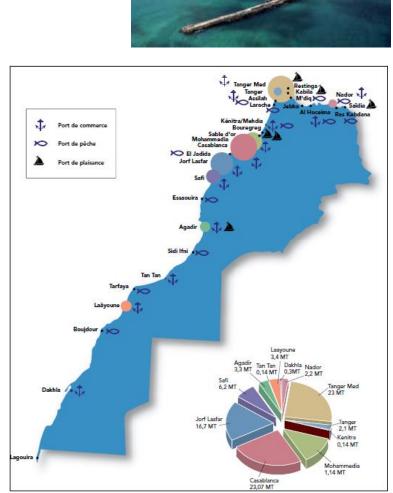
Existing ports :

- 13 INT'L trade ports
- 19 Fishing Ports
- 6 Marinas

4 large Ports under construction :

Expected Total investment by 2035 :

6 Billion USD









Water Ressources Sector

Morocco : Water-stressed country (MENA)

22 billion m3 per year (730m3/inhab/year)

 An Efficient model of water Management Internationally recognized 130 large dams constructed with a capacity of 16 billion cubic meter
 13 Water Transfer System (785 Km / 175 m3/s)

70 km of drilled wells

• National Water Strategy by 2030

Construction of 60 large dams and 1000 small dams

Desalination plants (400 Million m3)









Water & Sanitation

• Access to drinking water : 100% of urban population

93% of rural population

- 30% of Moroccan Sewage is currently treated and 60% foreseen by 2020
- Investment are currently driven to WWTP, Desalination Plants and water distribution projects

35 water-treatment and desalination plants are currently being constructed to strengthen the urban drinking water supply





National Solid Waste Program (2008 – 2012)

- 100% of solid wastes collected
- Recycling 20% of solid wastes by 2015





Environment

Renewable Energy

- Solar plan
 2000 MW by 2020
- Wind plan
 2000 MW by 2020
- Objectives : Energy generated from RE

12% (2010) 42% (2020)



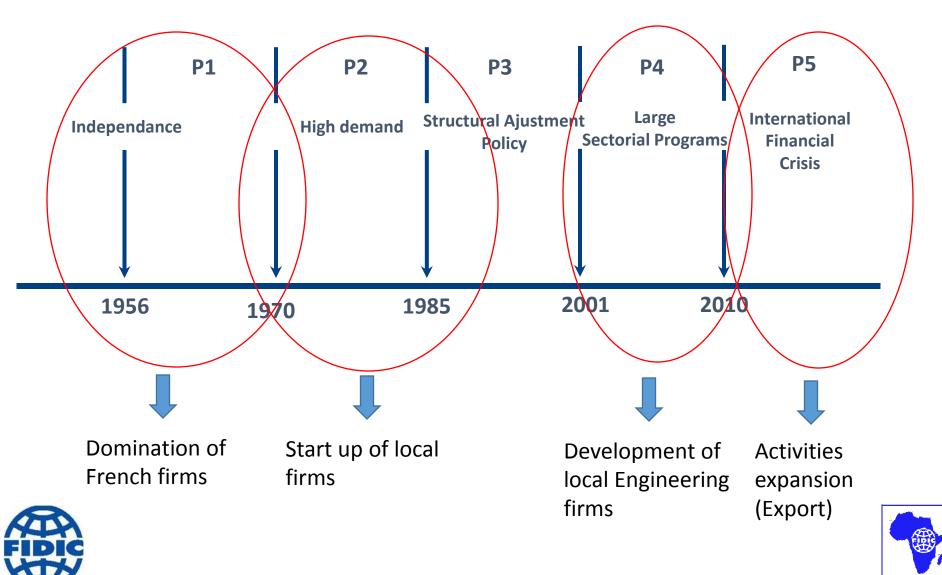








Context Evolution



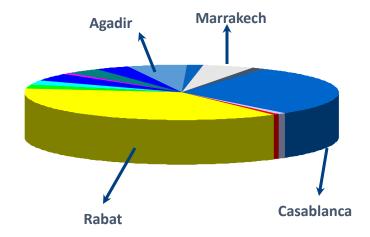
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Current Situation

- ✓ Local
 - 500 local firms
 - Mainly CE
 - Concentrated in 4 large cities
 - National Federation : FMCI

✓ International

- Mainly from EU, some from USA
- Firms from european countries facing crisis
- ✓ Market share
 - Local : 70 to 100%







Main Challenges

- Lack of human resources (technicians, specific engineering profiles)
- Lack of qualified Project Managers
- International Development (decreasing local demand, dumping,....)









- Undertook Actions to meet the challenges
- Enhancement of cooperation with foreign engineering firms





- Involvement in the "National Competencies Development Program" aiming the training of 10.000 Engineers by 2010
- Express the needs among Moroccan Engineering schools by taking part of their Management Boards
- Cooperating with an international engineering school for setting up an executive master in Project Management
- Implementing a career management system (building employee loyalty)



