Sustainable Development in Iran

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Index

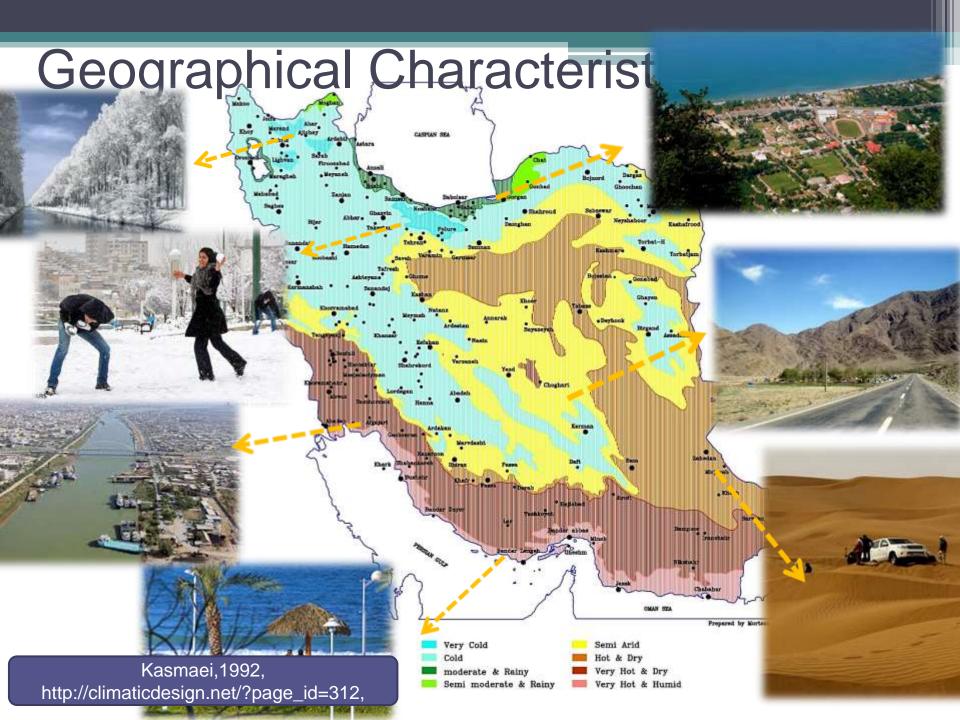
- Introduce Iran's
 - Geographical
 - Cultural
 - Economical
- Iranian perception of sustainable development
 - Definitions
 - Perception
 - Similarities and differences
- Practicing sustainable development
 - Case studies





Geographical Characteristics

- ☐ Iran is the eighteenth largest country in the world
- ☐ Area of 1,648,195 km² (636,372 sq mi)
- ☐ It is one of the world's most mountainous countries,
- ☐ The mountain separate various basins or plateaux.
- Elevation
- 8climate zones
- Annual rainfall
 - ☐ Wide range 13-150 cm
- Mountain area
 - □ snow



Divers Flora and fauna:

6 major types of forest:

1. Caspian forests

2. Limestone

3. Pistachio

4. Oak

5. Shrubs

6. Sub-tropical the Hara forests

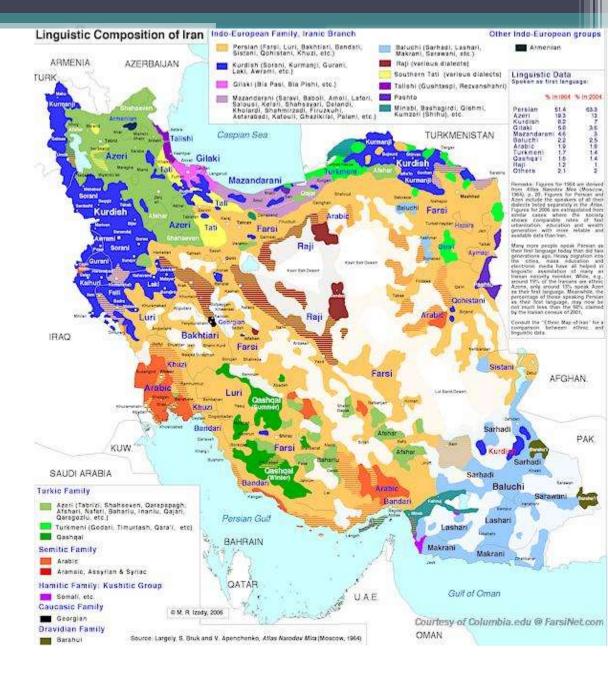
20 mammal and 14 birds sp

bears, gazelles, wild pigs, wolves, jackals, panthers, Eurasian lynx, and foxes



Cultural/Social

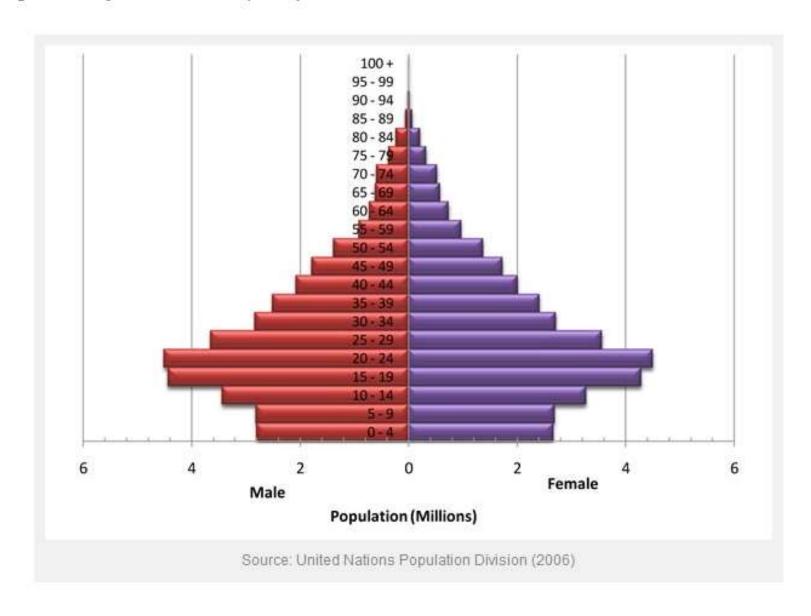
- Iran has 31 province
- Population:
 - more than 74 Million
- Tehran is a capital
 - More then 8 Million
- There are 8 cities
 - More than 1 million
- 6 different races
- 11 different accent



Social glance

Population:	74.7986 million (UNDP, 2011)		
Population Density:	45 people per sq. km		
Rural Population:	21.5 million (28.7%)		
Urban Population:	53.3 million (71.3%)		
Peoples:	Persian (52.4%); Arabs (4%); Azeri (25%); Baluchis (1.9%); Kurds (5.7%) Lurs (3.5%) Other (7.5%)		
Language:	79 spoken languages – 75 indigenous; 4 immigrant Official Language Persian (Farsi) – 61.2 million (82.5%).		
Religion:	98.6% Muslim :90.8% Shi'a; 7.8% Sunni 1.4% non-Muslim minorities.		
Estimated Christians:	300,000-390,000 (0.41%)		

Population Pyramid for Iran (2006)



Economic Glance

Economic index	Iran	Middle East
GDP per capita growth, 2000-08 (average annual %)	5.9	4.8
Inflation, consumer prices 2008 (annual %)	25.5	11.1
Inflation, consumer prices 2000-08 (average annual %)	15.5	4.47
Unemployment, total (% of total labour force) 2005-08	10.5	10.6
Youth Unemployment rate, 15-24, total (%)	22	27
Employment-to-Population Ratio, 15+, total (%)	49	45
Employment-to-Population ratio, 15-24, total (%)	36	29

UNDP (2009) The Human Development Index: Iran Country Profile. World Bank (2010) World Development Indicators 2010. World Bank: Washington D.C.

Sustainable development

 Iranian literatures borrow sustainable development ideas from UN world commissions



- Some Authors believe Father of Iran Environmental studies
 - Professor Firooz addressed the basic concepts in caring about natural resource and environment
 - in first environmental commission Stockholm in 1972
- Professor Firooz phrase was "Rational Use of Natural Resource "
- In 1980, sustainable development was used at International Union for Conservation of Nature for first time

- Sustainable development is about "Our common future" which was emphasized in Rio conference "Earth Summit "in 1992(WCED, 1987, p. 43),
- In 1992, Iranian government establish a National Committee for Sustainable Development (NCSD)
 - long term vision for balancing economic and social needs with the capacity of natural resource.
 - Sustainable development emerged as a new paradigm of development integrating :
 - economic growth,
 - social development
 - environmental protection
 - Shift the from fixed -goal to process based approaches



- The government has completed two national initiatives
 - 1- the National Plan for the Protection of the Environment
 - 2- the National Strategy for Sustainable Development

National Plan for the Protection National Strategy for Sustainable Development of the Environment Nation biodiversity Has 40 chapters Promotion of public awareness and Poverty participation; Consumption pattern Formation of biodiversity Health information systems; Sustainable human Sustainable use of settlement development biodiversity resources; and Environment Integrated management of biodiversity Decision making

Insufficient technical capacity for monitoring and evaluation procedures, Insufficient cooperation between conservation and development sectors,

Insufficient financial mechanisms for developing projects with international partners,

Conflict of interests between private and public stakeholders,

Challenge

Gaps in laws and regulations related to sustainable management and utilization of resources

Insufficient clarity in responsibilities of business sector for development

Imperfect understanding of government decision makers and the public regarding Insufficient performance of related regulations,

- Survey Iranian student knowledge about SD(2008)
 - University students majors :business,
 engineering, humanities and medicine
 - High school students
- The result of this study shows:
- 1- women are more knowledgeable than men
- 2- High school students with environmental education have significant knowledge about SD

Perez-Batres et.al, 2012, Sustainable Development in Iran: An Exploratory Study of University Students' Attitudes and Knowledge about Sustainable Development, Wiley Online Library

• The other interesting outcome:

Students have

- positive attitude toward SD
- were knowledgeable about some SD concepts

does not mean

behavior is consistent with SD goals(Perez-Batres et.al, 2012)

Sustainable development also emphasize a participatory, multi stakeholder approach to policymaking and implementation

Iran 's management approach Top-down (Control and commend).

Bottom-up Top-down

Interpret sustainable development differently

Disadvantages of Top-down approach

- Lack of knowledge
- Lake of relationship between different level
 Time consuming

Case studies

- The Next two case studies are focused on international plans with sustainable development goals:
 - I. Describe the plan
 - II. How it been implemented in Iran
 - III. What is the outcome

1= Wastewater treatment plant(WWTP) in Tehran (Wold Bank Support)

2= The City Development Strategy(Wold Bank and under grant from the Cities Alliance)

These two plans have been used:

- 1- Plan's design are international
- 2- Plans have been implemented in various countries
- 3- The outcomes of the plans are clear and the plans themselves are successful
- 4- How did it work in Iran

First Study: wastewater treatment plant(WWTP)

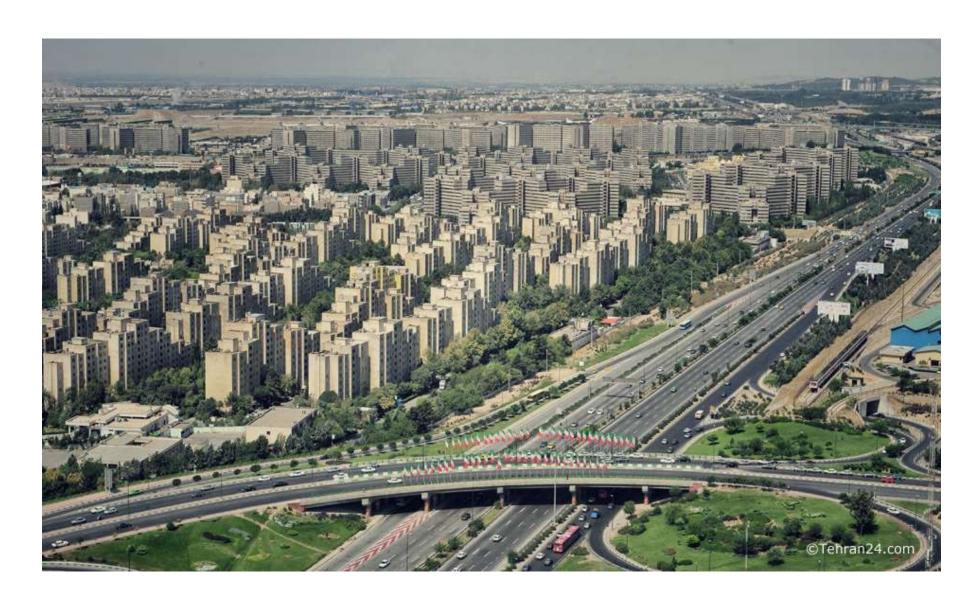
- Tehran Sewerage Project
 - Improving the environmental conditions in the Greater Tehran area,
 - Installation of wastewater collection, and treatment facilities,
 - improve public health, and further enhance irrigation systems in the surrounding areas.

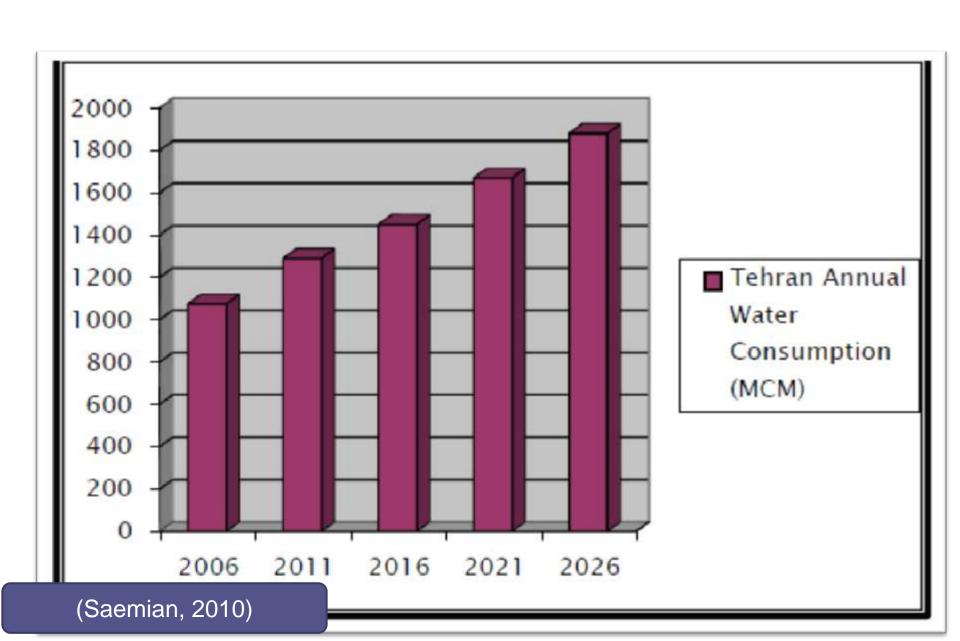
First study: wastewater treatment plant(WWTP)

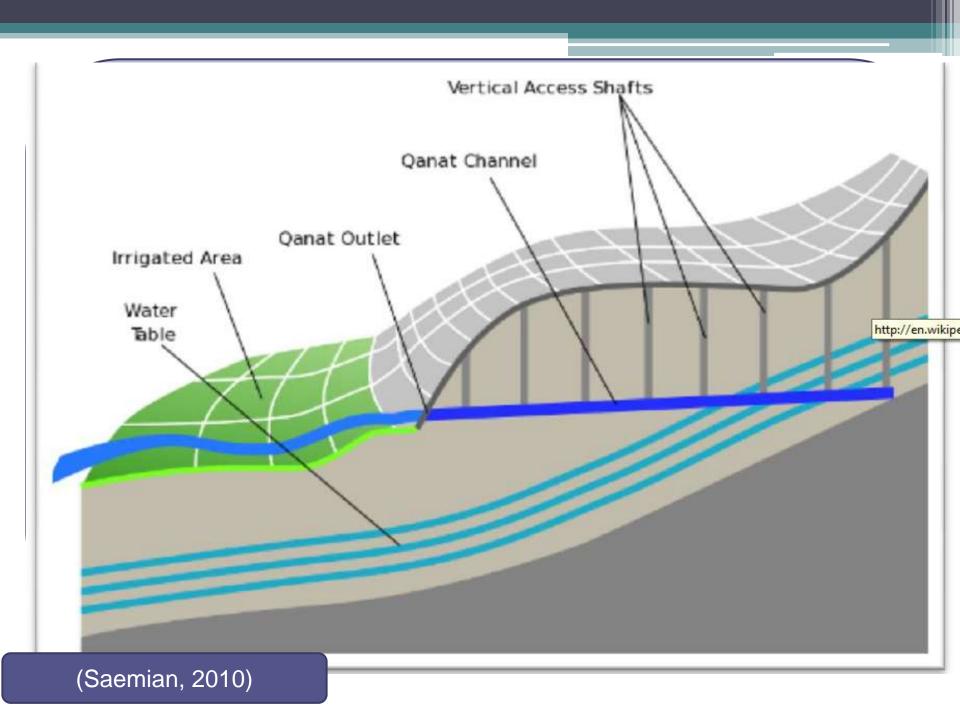
- Tehran, the capital city of Iran,
- In 2010 the rate of population growth in Tehran was 2.8%

 water consumption was also increasing; whereas Iran is a semi-arid region in general and access to surface and ground water supplies is limited









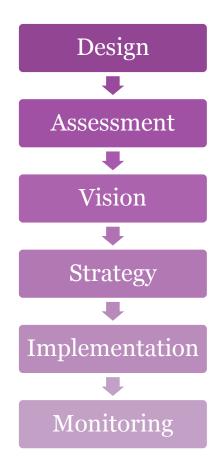
Second Study (CDS)

- City development strategy (CDS) program
 - city preparation in long run through short and medium term's action plans to sustain city development
- World Bank recognizes sustainable cities
 - possess livability (livable)
 - Are competitive (competitive)
 - Are banking (bankable)
 - Good management and governance (well managed and well governed)(Sarafi et al.,1388: 67).

sustain city development emphasizes:

- broad participation of citizens,
- equitable growth,
- ecological balance
- enhance the city economic competiveness (sarafi et al., 1388: 67).
- CDS working group is required to identify and find investors in establishing and maintaining a dynamic corporate culture.
- CDS plan methodology may be composed of five phases:
 - (vision): agreement investment structure for the recommended economic characteristics of communities
 - (goals): are based on all vision and will determine results of the proposed planning process
 - (objectives):set performance standards and target activities for development
 - (programs):start working out approaches to achieving realistic goals of economic development

- Finally best result of CDS can be including as following:
- Cities better understanding with participatory planning during CDS process.
- Company official and investors can have better and more successful negotiation among themselves.
- Enhancing public participation and group work
- Personal efficiency improves and the skill to search for external funding progress.
- Better understanding for implementation and managing new projects (un-habitate,2005:30)



Over all CDS process consist of five steps:

1-(preparation):identify change stimulus's and systematic, small goals, work plan

2-(analysis):gathering main lines of information, analyzing the weaknesses and strengths, identifying areas of consensus of urban issues and priorities

3-(strategy formulation): defining a vision, formulation and assessment feature, determining the role of investors, developing active plans in within a framework of financial empowerment.

4-(implementation):implementing indicator project, enables resources by capitalists and accepting investment plan and support donor

5-(**consultation**): In parallel with four steps above continual is a participatory process. Also it is a consultation to reach a formal political commitment type as a process to achieve a vision and strategic framework (<u>www.citiesalliance.org/ca/cds-project</u>)

Iran CDS

- In Iran CDS plans have been conducted for some cities: Qazvin, Sharood and Bandar Anzali
 - Small cities
 - Different geographical, economical and social
- If the outcomes are satisfying CDS plan will be implemented in other large cities like Tehran, Shiraz and Isfahan
- The CDS plan are implemented successfully in various cities in Asia
- In Iran CDS plans just stay in first stage and the projects are closed
- There are studies which reviewed the CDS plan and provides many result s (Hataminezhaz and Mollaiee, 1389)
 - One of the most important results is during the project City Council loss its duties the only sources of public participation became smaller



Conclusion

- To date, in Iran, knowledge about Sustainable development increased significantly
- However increasing the knowledge can not be considered as a sustainable behaviour
- Governments and decision makers have significant effects in achieving a sustainable development in Iran.

Toward sustainability there are lot of barriers

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