

Global Water Environment

Certificate

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The use of, and the rights to Water

- Availability of Water and Sanitation
- Challenges for the future
- Structural forms of the Water Industry
- Future Opportunities



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- Water - a Human Right?
- How much water should people have a right to?
- How do we define access to water?
- What is the highest priority for water use?



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Potential Uses



- Agriculture



- Industry



- Environment



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- **Basic Human need to survive**
- **20 - 50 litres per day**
- **Average daily consumption in South Australia
250 litres/person/day**
- **55 countries worldwide well below 50 litres/ day**



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Worldwide population around six billion

- 1.5 billion without access to safe water
- 3 billion without adequate sanitation
- 5 million deaths a year from water related disease



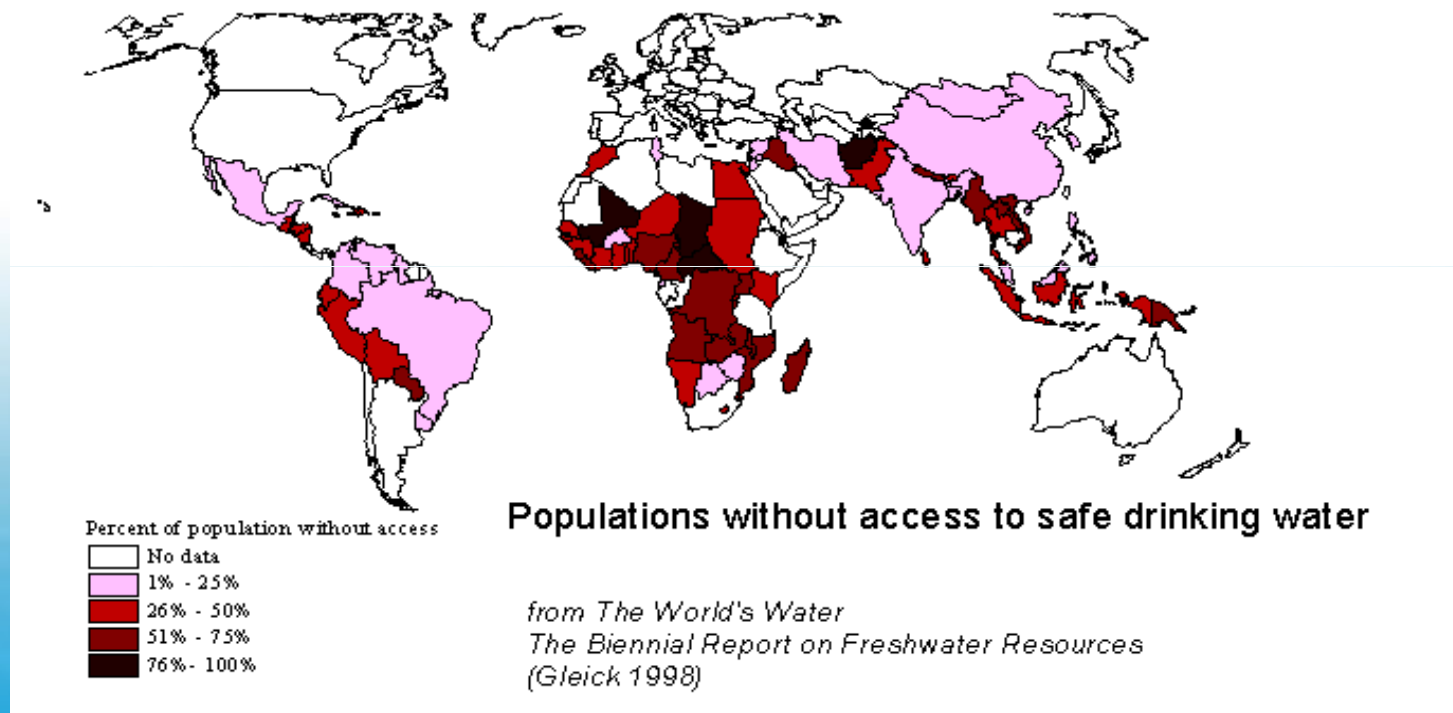
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What are the projections?

Water as the cause of conflict

- Global freshwater use is rising twice as fast as population growth
- By 2025 two thirds of the population will live in water stressed areas



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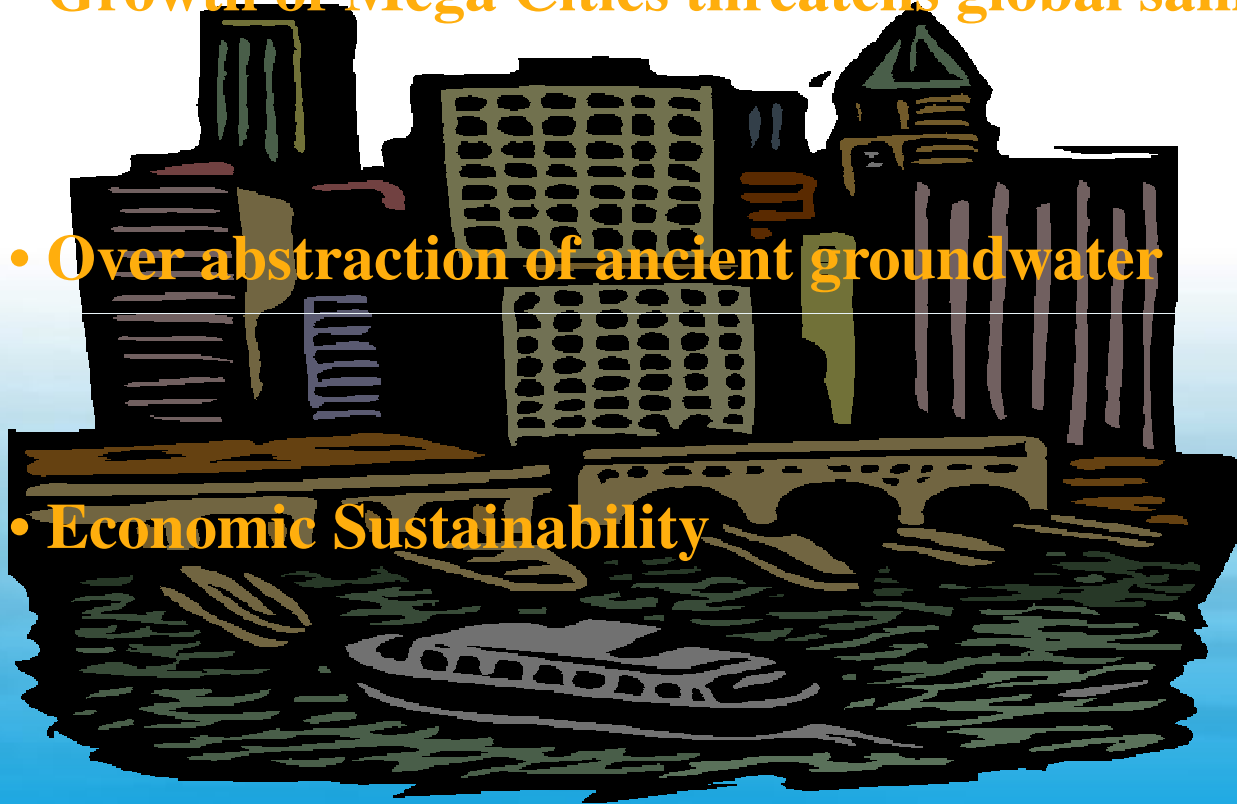


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- Growth of Mega Cities threatens global sanitation
- Over abstraction of ancient groundwater
- Economic Sustainability



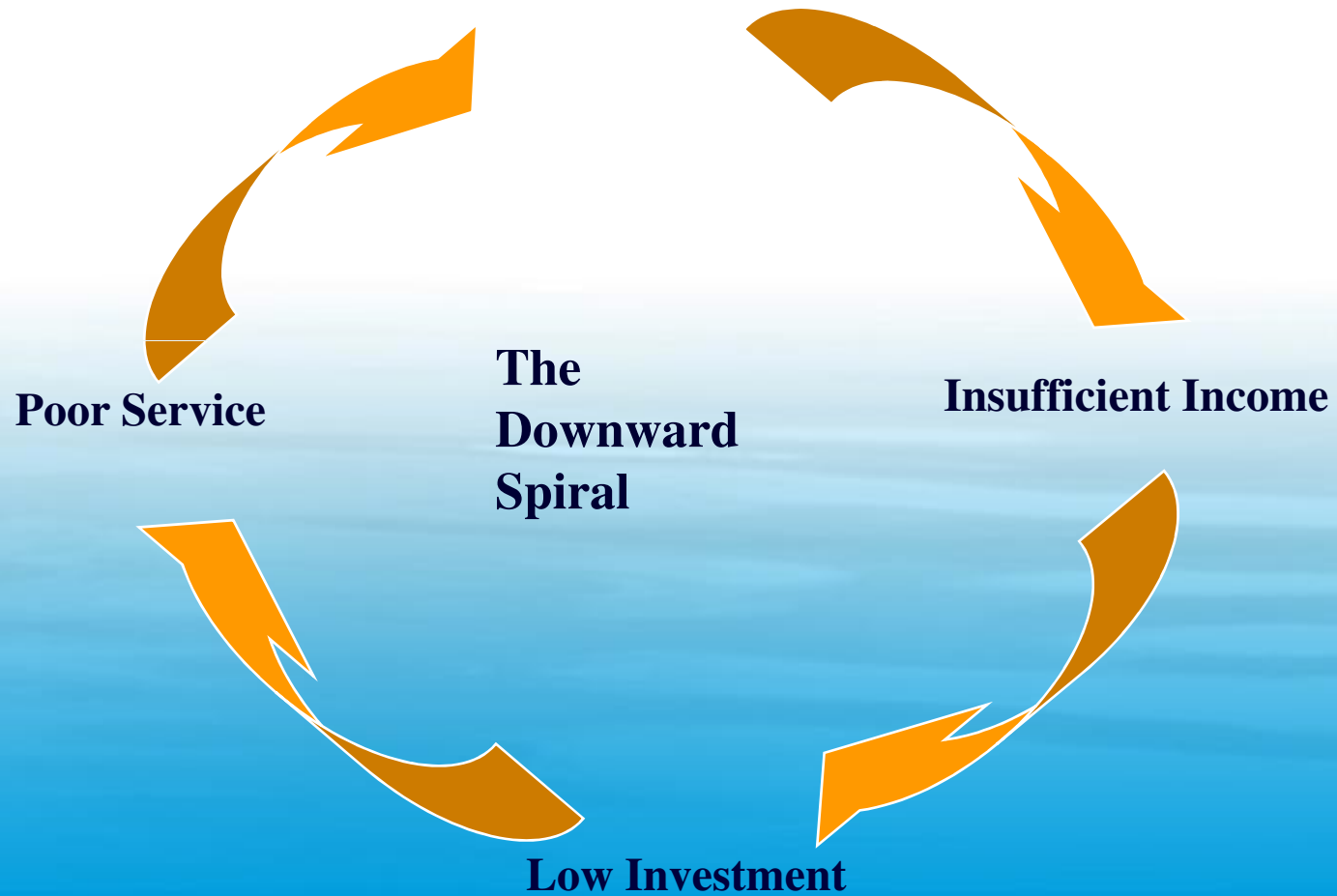
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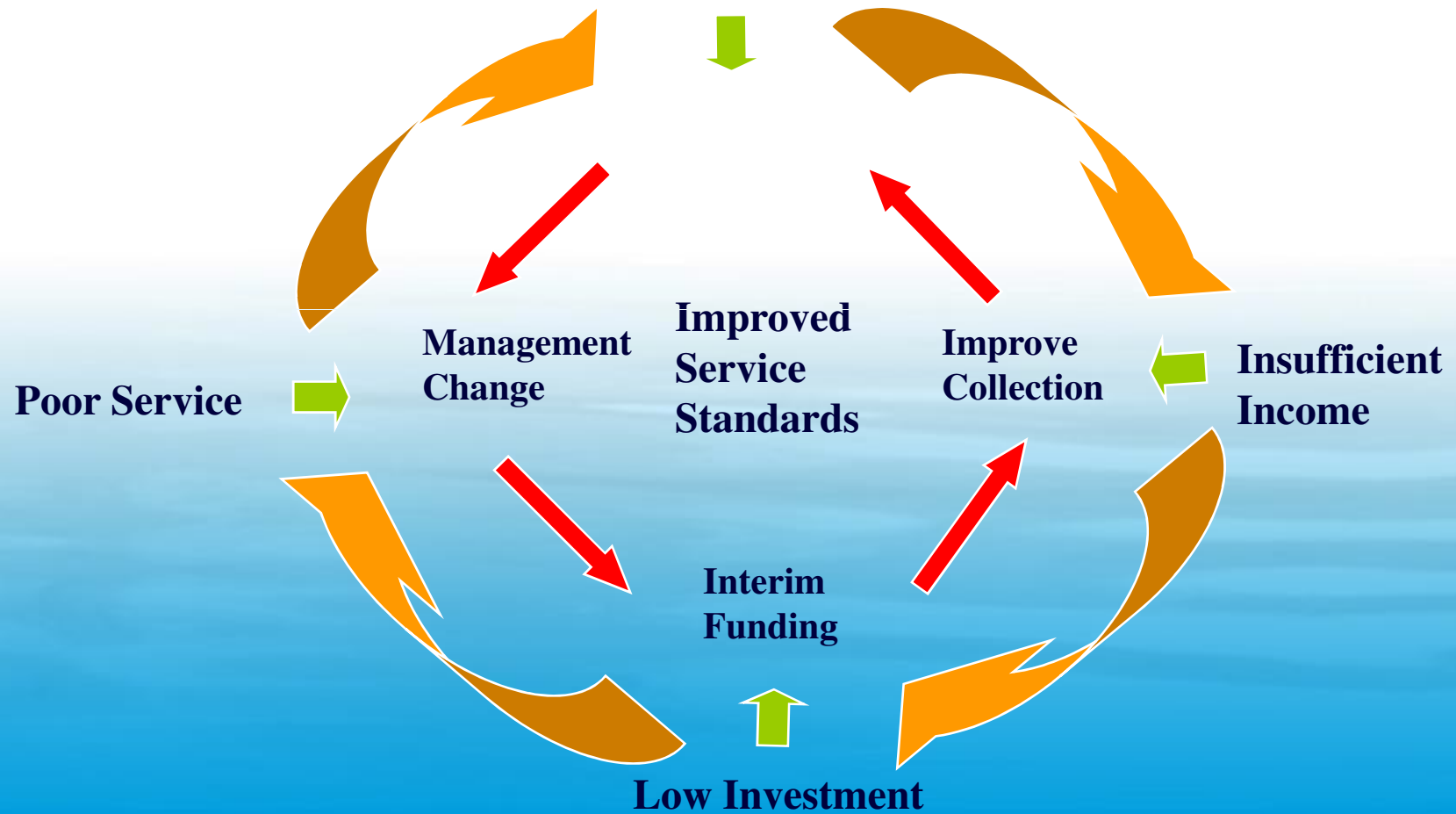
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Models for the future

- **Privatisation**
- **Horizontal Integration**
- **Vertical Integration**
- **Catchment Based Management**
- **Integrated Water Resource Management**



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The European Experience

United Kingdom

- Regulation and Privatisation

- France

- Municipal Base and
Afterimage or Concession

- Germany

- Municipal and Private

- Italy

- Municipal



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Opportunities

Consultancy for system development

- Operating Contracts
- Acquisition
- Design and Construction
- Integrated Water Resource Management

