

# GLOBAL THINKING- LOCAL ACTION: ADOPTING THE LOW IMPACT DESIGN (LID) TECHNOLOGIES IN URBAN STORMWATER MANAGEMENT

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# Introduction

- Economic development is the successful transformation of the economy.
- Escalating population growth and Increased urbanization
- “The Earth is one but the world is not”. The Brundtland Report: 'Our Common Future
- Sustainable Development adoption as one of the tenet of GREEN MOVEMENT



# Low Impact Design (LID) Technologies

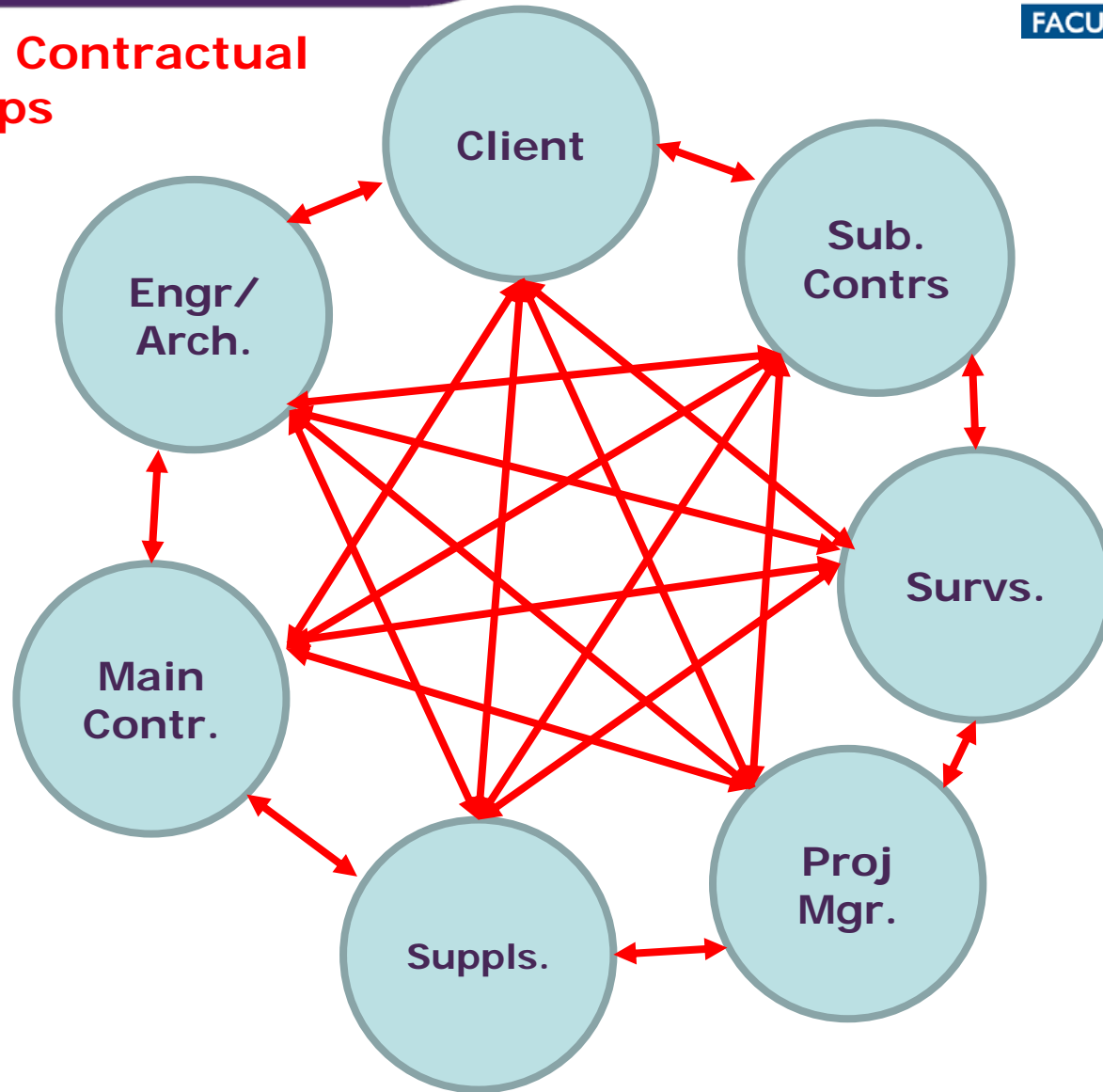
## LID technologies:

- Structural devices (engineered systems)
  - Green roofs
  - Permeable pavement
  - Rain gardens
  - Etc.
- Non-structural devices (vegetated, natural systems)
  - Impervious area disconnection
  - Reduced set backs

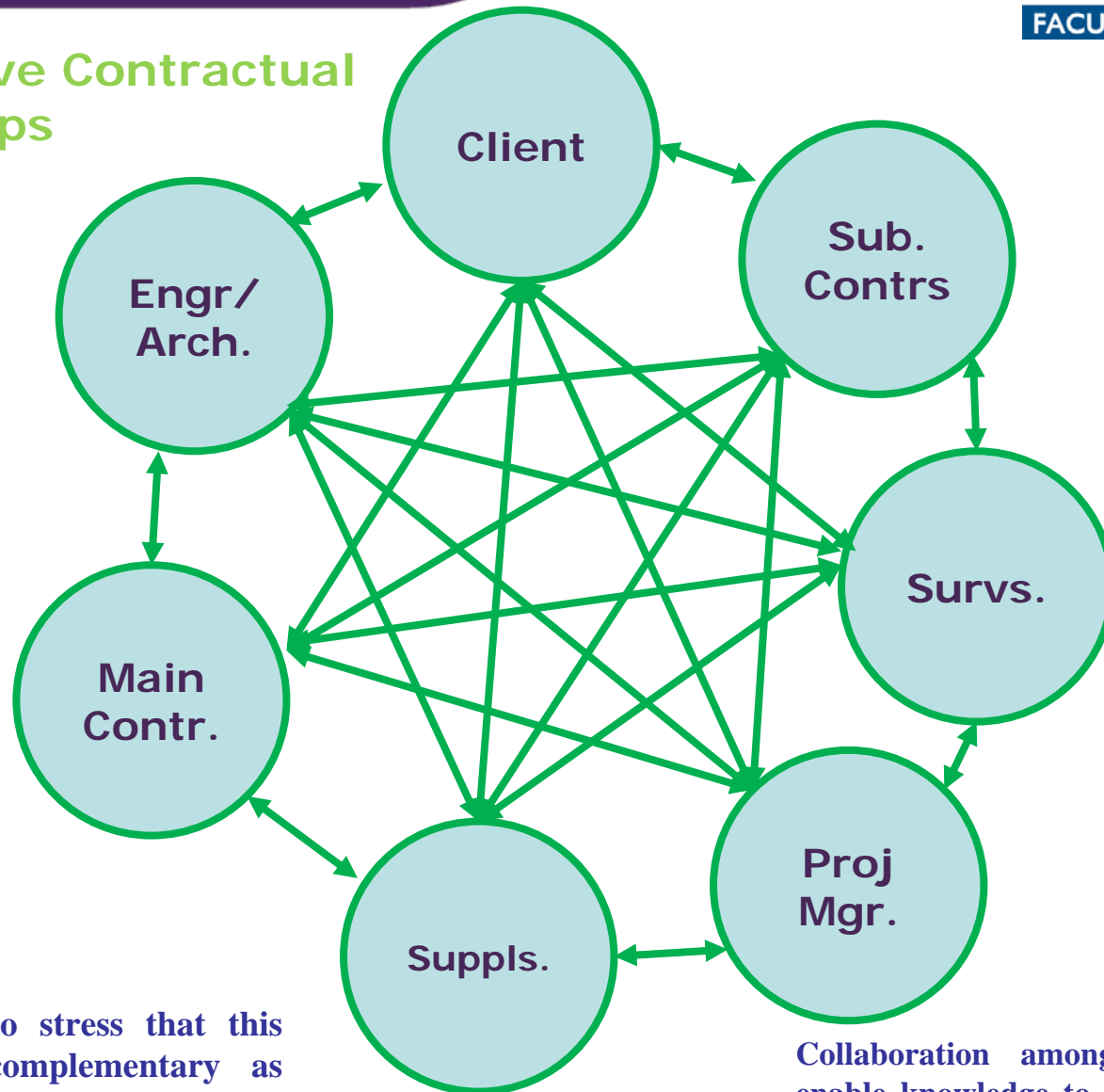
## LID objective:

Maintain or restore the natural hydrologic functions on a site

## Adversarial Contractual Relationships



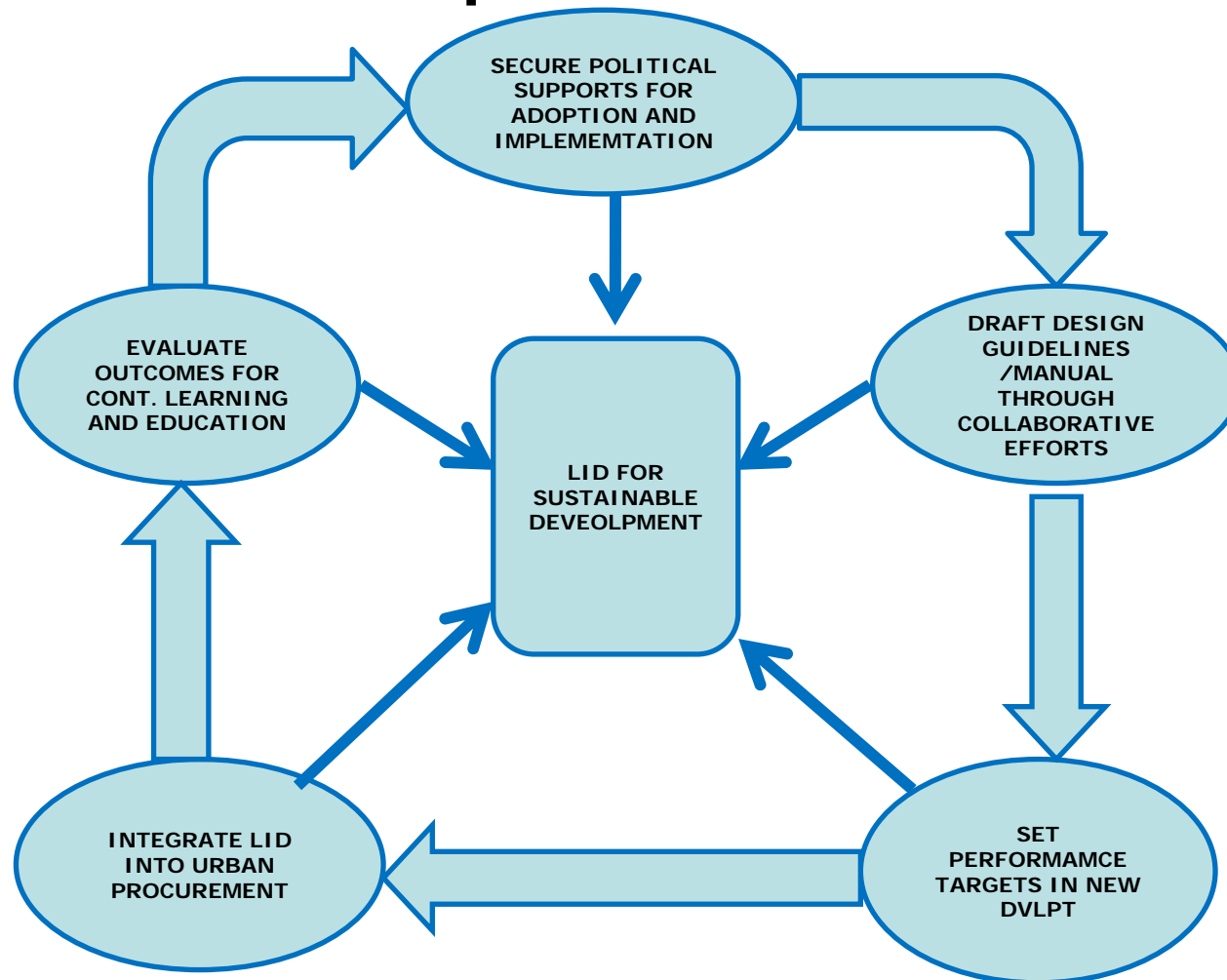
## Collaborative Contractual Relationships



It is important to stress that this relationship is complementary as without specific disciplines there would be no knowledge depth .

Collaboration amongst the disciplines will enable knowledge to transcend the dimensions of strategic planning and management, manifesting in sustainable on the ground action.

# Theoretical Implementation Roadmap





# Conclusion

While governments are expected to take the lead, other stakeholders are just as important to ensure success in achieving sustainable development. The promotion of LID adoption can be achieved via: -

**External Approach:** Legislative supports and design guidelines

**Internal Approach:** has to do with relationships between the contract parties

Collaborative exchange of ideologies between the planning, design and construction team and

Pre-contract joint risk terms negotiation between the project team.

**THANK YOU**