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Sustainable Service Delivery:

An Integrated Approach Links Land Use Planning, Watershed Health and Infrastructure Liability

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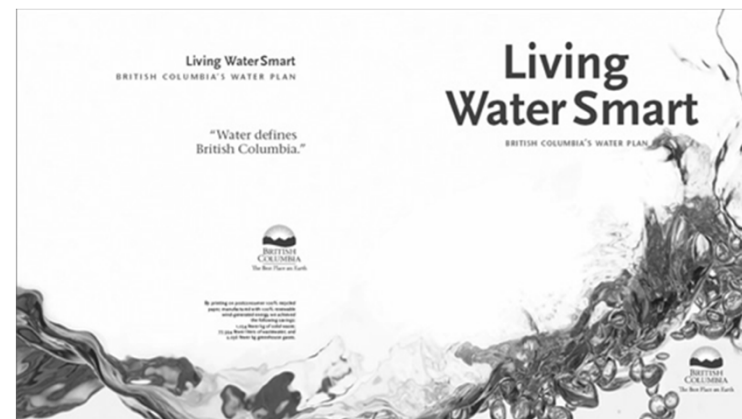


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The Provincial Perspective



Action Plan for Safe
Drinking Water in
British Columbia



**ENERGY EFFICIENT
BUILDINGS STRATEGY:
MORE ACTION, LESS ENERGY**



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Capital Funding Programs Encourage Sustainability Principles

- **Meet/exceed a recognized environmental standard**
- **Water Conservation and demand-side management**
- **Energy Efficiency & reduced greenhouse gas emissions**
- **Resource Recovery**
- **Innovation and transferrable knowledge**
- **Asset Management & Full Cost Accounting**
- **Part of long-term management plans**
 - **Water Master Plan, LWMP, Energy Plan, GHG reduction plan**



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Program Applications: Reviewed for Sustainability

- **Technical Review**
 - Public & environmental need
 - Long-term thinking, integrated approach
 - Reducing emissions, energy use, impacts
 - Feasibility studies, value added
- **Financial Review**
 - Stable economy,
 - Revenue versus costs
- **Planning Review**
 - Integration with community plans
 - OCP, RGS, Water Master Plan, LWMP, Energy Plan, GHG reduction plan



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Leveraging Change

TODAY: Program guides “provide direction” and ranking criteria supports green projects/management

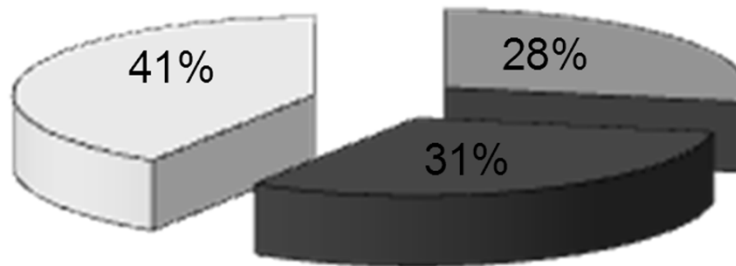
TOMORROW: Grant conditions used to bring some recipients up to a certain “green” standard

DOWN THE ROAD: Meeting a “green” standard will be a requirement for grant eligibility



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Age of Canada's Infrastructure



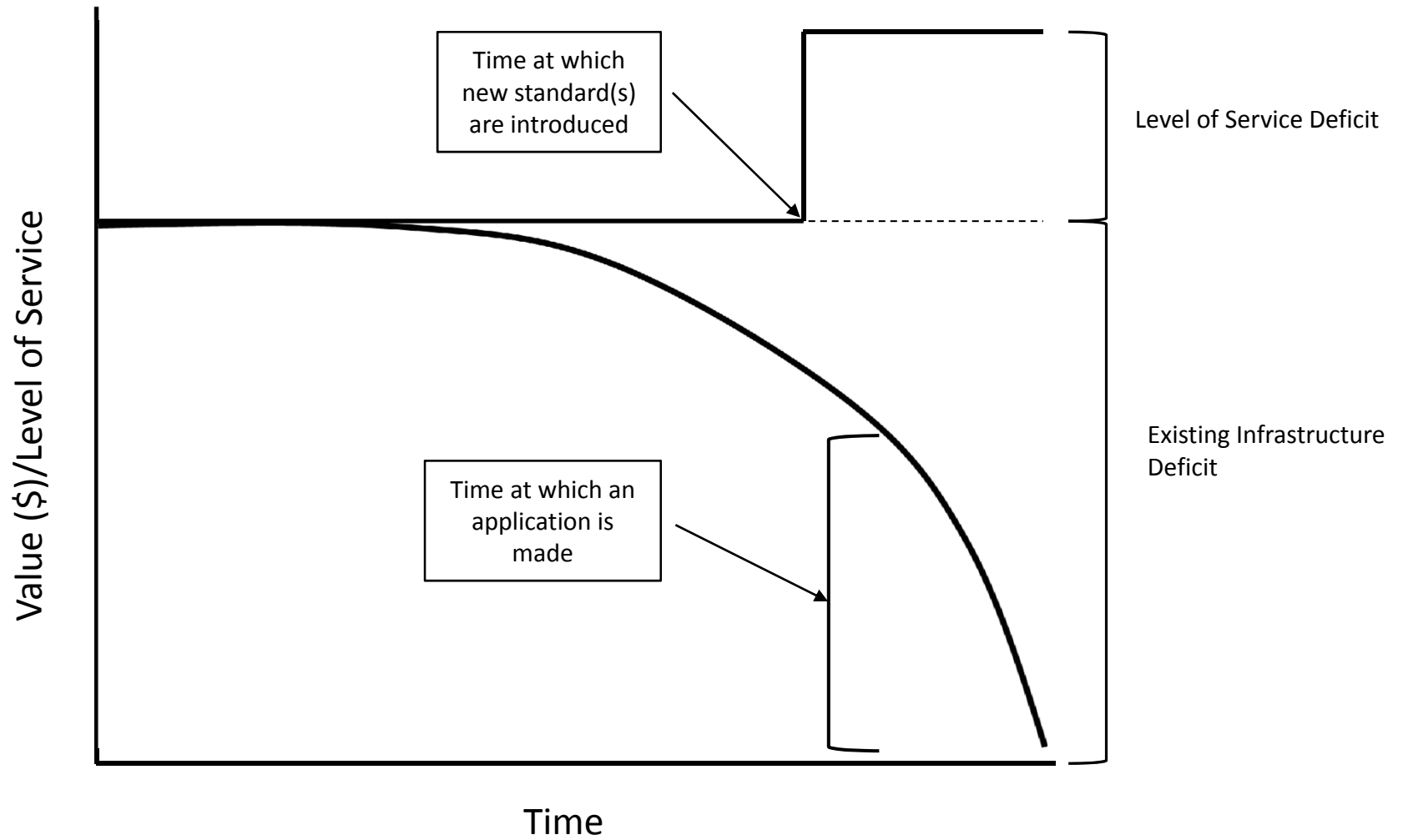
- 80 to 100 years
- 40 to 80 years
- 0 to 40 years



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Level of Service/Infrastructure Funding Gap





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Sustainable Service Delivery

AKA: What is Asset Management?

- Integrated approach involving **planning**, engineering and finance to effectively manage existing and new municipal infrastructure in a sustainable manner to maximize benefits, reduce risk and provide satisfactory levels of service to the community user in an **environmentally** and **ecologically responsible manner**. (National Asset Management Working Group)



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Principle #1 – It's all about service

- **Infrastructure [assets] only exist to provide a service ~~to the public~~**



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Principle #2 – Once the local government has decided to provide the service – define its quality

“Levels of Service” (LoS) means different things to different people – beware of LoS creep !



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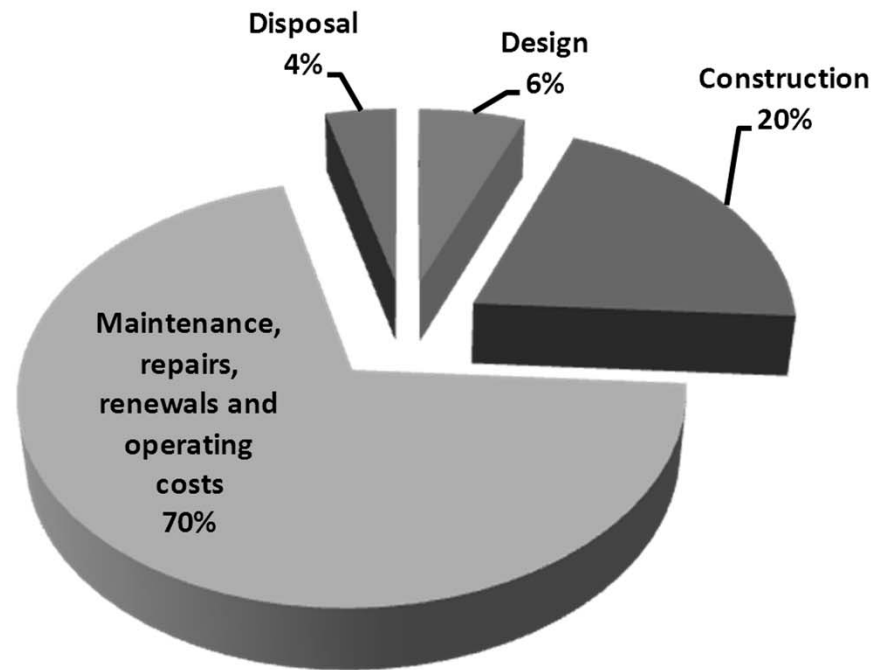


**Principle #3 – With Levels of Service
come Operations and Maintenance
requirements over the life-cycle of the
asset**



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Distribution of life-cycle costs for a typical building (Source: British Columbia Homeowner Protection Office)



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So What is Sustainable Service Delivery?

- It integrates all the principles of Asset Management
- It understands the value of land-use planning
 - And it understands the impacts land-use planning has on service delivery
- It integrates the 'Design with Nature' philosophy
 - Nature is a valuable asset that must be 'maintained' in order to 'operate' effectively
 - Nature's assets often appreciate rather than depreciate – What can we do to leverage this?
 - Nature provides multiple 'services' – some similar to traditional community services – i.e. Rainwater management
 - Nature, and many of the resources it provides, are finite



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