

THE SUSTAINABLE REGION INITIATIVE • • • TURNING IDEAS INTO ACTION

Sustainability Principles 可持续性的原则

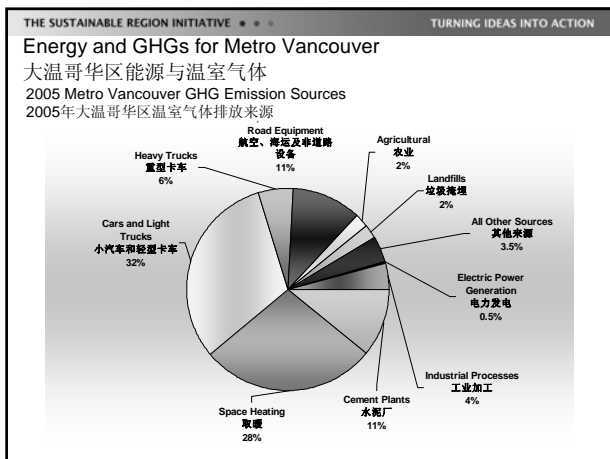
- Sustainable Region Initiative is framework for all Metro Vancouver actions
- Commitment to value long-term in plans and actions
- Conserve and develop natural, economic and social capital
- 可持续区域计划是整个大温哥华区方案的工作框架
- 承诺长期对该计划与方案的重视
- 自然、经济与社会资产的保护与发展



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Greenhouse Gas Reduction Target 温室气体减排目标

- 2007 provincial commitment to reduce GHG emissions by 33% by 2020
- 2007年大温哥华区承诺到2020年减排温室气体33%

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Planning for Growth 发展规划



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Sustainability Challenges 可持续性挑战

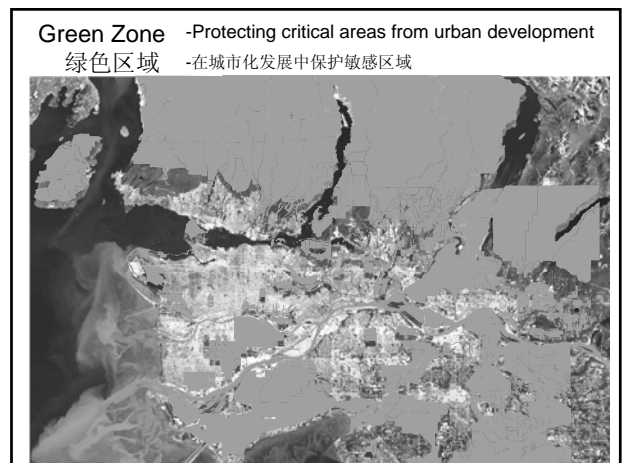
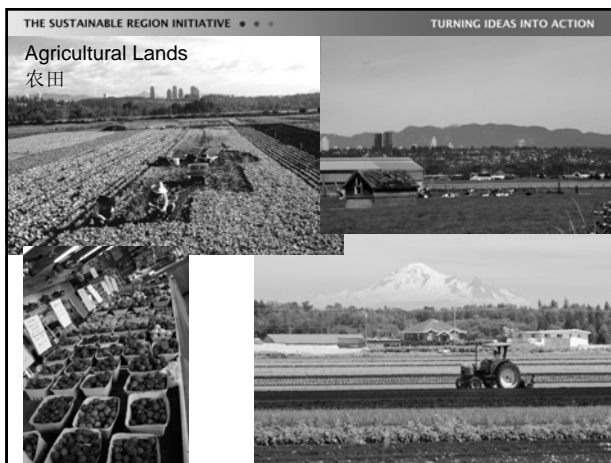
- Biodiversity** 生物多样性
- Water quality** 水质
- Climate change** 气候变化
- Road congestion** 道路拥堵
- Reducing waste** 减少废料
- Energy conservation** 节能
- Auto dependency** 对汽车的依赖
- Urban expansion** 城区扩展
- Conserving farmland** 农田保护
- Economic competitiveness** 经济竞争
- Homelessness** 无家可归者
- Industrial land supply** 工业用地供应
- Transit Supply** 公共交通供应
- Affordable housing** 可负担的住宅



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Establish the Urban Footprint 保护城市生态足印





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Connect Higher Density Development and Transportation

将高密度发展和交通整合起来

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Strategies 战略

□ Focus population and job growth in the established urban area

关注现有城市区域的人口和就业增长

□ Encourage more jobs close to housing

鼓励更多的就近就业

□ Develop a network of mixed use, dense urban centres linked by high-capacity transit

发展大容量公交系统联接的综合土地利用和密集城市中心开发

□ Diversify housing types

住宅形式多样化

□ Provide transportation services to support population and employment targets

提供可以满足人口增长和就业需求的交通服务

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Metro Core 大温哥华区

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Regional Town Centre地区城镇中心

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Mixed-use, walkable neighbourhoods

混合开发、具有良好步行环境的社区

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Mixed-use, walkable neighbourhoods

混合开发、适合步行的街区

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Regional and Municipal Town Centres

区域和城市中心区

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Transportation – Accessibility and Options

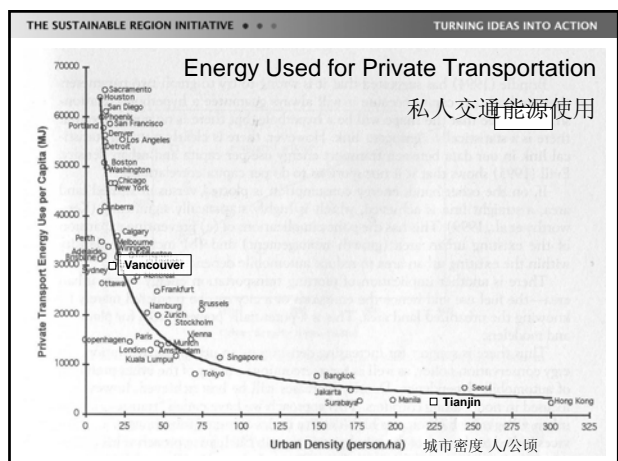
交通 —— 可达性和多选择

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How we get around in Metro Vancouver

温哥华的出行方式

Mode of Transport	Percentage
Motorized Vehicle (机动车)	76%
Transit (公交)	11%
Walk (步行)	11%
Bicycle (自行车)	2%



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Strategies策略

Manage Land Use

Significantly expand public transit, walking and cycling choices

Manage transportation demand

Increase transportation capacity

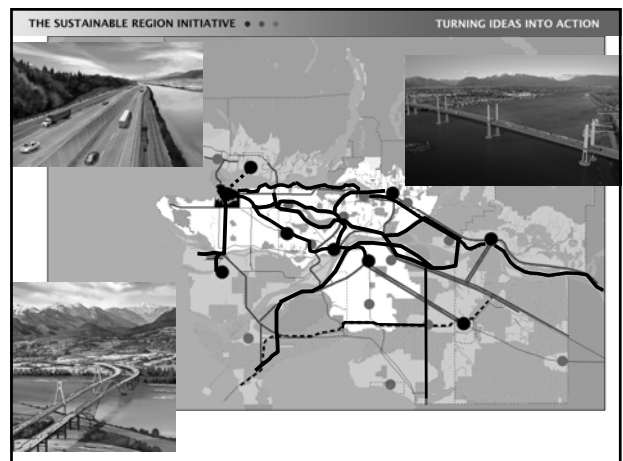
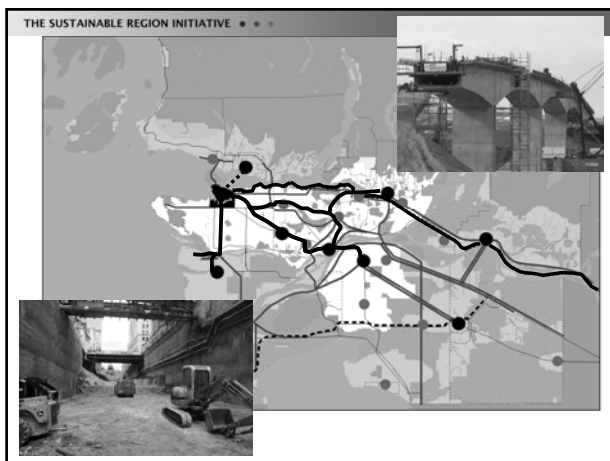
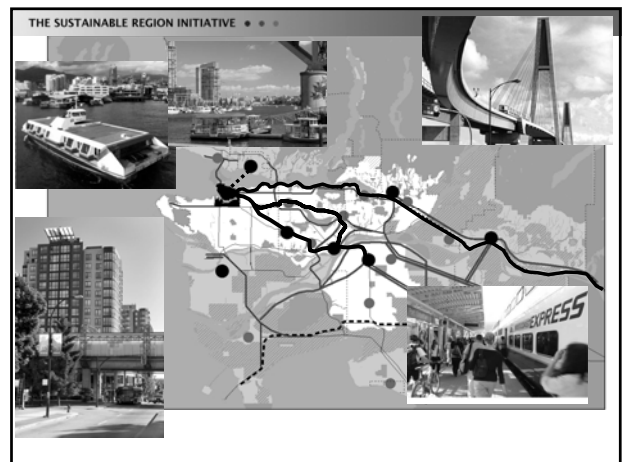
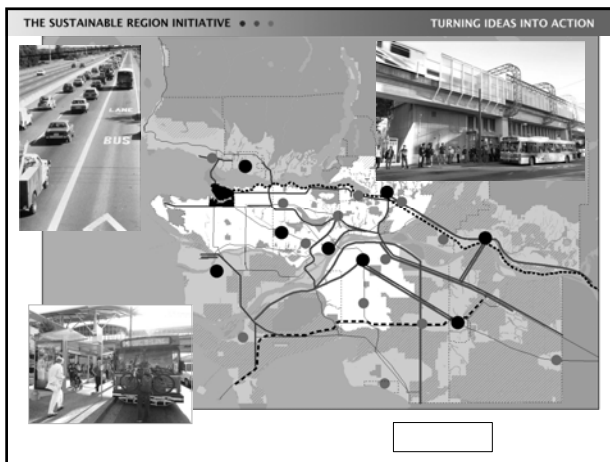
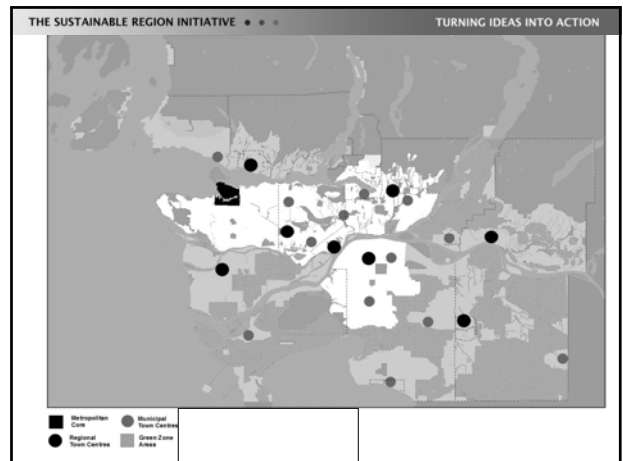
控制土地使用

大力发展公共交通、步行和自行车道

控制交通需求

提高交通运能



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能源技术 Energy Technologies



能源制备和回收 Generating and Recovering Energy




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微观水环境 Micro Hydro

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废物变能源 Waste to Energy

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生物肥料作燃料 Biosolids as Fuel

作为能源生产的燃料 Use as a fuel for energy production.





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替代能源和绿色建筑 Alternative Energy & Green Buildings








VanCity 信用合作社 VanCity Credit Union Branch

BC 癌症研究中心 BC Cancer Research Centre

兰利大厦 - 市政设施 Township of Langley - Civic Facility

北温哥华 - 住宅大厦 Residential Tower - North Vancouver

白石镇 City of White Rock

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地热交换 Geo-Exchange



Sourcing Earth's energy potential

国家工厂 National Worksyard



学校和社区中心 Schools and Community Centres




市政设备 Civic Facilities



过滤工厂 Filtration Plant



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替代能源和绿色建筑 Alternative Energy and Green Buildings

废水热回收—2010 奥运村
Sewer Heat Recovery – 2010 Olympic Athletes' Village



Community Energy Centre


network of underground pipes distribute hot water to the neighbourhood

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替代能源 Alternative Energy

2010 奥运溜冰场
2010 Olympic Skating Oval

热网理念 Thermal Network



1. Thermal energy distribution
2. Geothermal ground loop heat exchange
3. Geothermal river heat exchange
4. Grey water heat recovery
5. Ice rink heat recovery
6. Solar thermal collectors

1. 热能分布
2. 地热地板管道热交换
3. 地热河流热交换
4. 污水热回收
5. 冰场热回收
6. 太阳能集热

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Performance Measures 性能测量

↑	运输消耗	Transit use
↑	中心或500m内的温度升高比例	% of growth in centres or within 500m of transit
↓	增长带来的土地消耗	Land consumption to meet growth
↑	空气质量	Air quality
↓	温室气体排放	Greenhouse gas emissions
↑	节能	Energy conservation

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