



## Future of Transportation: COVID Recovery Scenarios

#### **Report to the SPC on Transportation & Transit** 21 October 2020





#### The Future of Transportation & COVID

- Part of the Future of Transportation
  portfolio
- Short-to-long term COVID impacts on transportation and urban form
- Ongoing collaboration with
  - Planning & Development
  - Resilience & Infrastructure Calgary
  - and others





### Strategic Foresight

- Scenario planning tool
  - plausible futures, not forecasts
  - stress test assumptions
  - reduce the chance of being caught by surprise
- Actions to manage risks & new opportunities
- Continue achieving The City's strategic goals



# Shell







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### **Creating Scenarios for Calgary**

- Key drivers
  - pandemic duration / severity
  - global energy demand
- Emerging trends influenced by COVID
  - remote work
  - retail delivery services





#### Scenario 1: Rapid Recovery

- Pandemic: short, exit early 2021
- Economy: stimulus spikes demand for oil & gas
- Growth: steady but moderate, focus on suburbs
- Finances: sufficient but unpredictable

- Remote Work:
  2 days / week (25% less downtown commuting)
- Retail & Delivery:
  mix of traditional retail
  and home delivery





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#### Scenario 2: Increased Crisis

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- Pandemic: severe second wave, exit late 2021
- Economy: depression with high unemployment
- Growth: initial pop & job losses; long, slow recovery
- Finances: very constrained

- Remote Work: 1 day / week with high office vacancies
- Retail & Delivery:
  retail decline; online vs
  buy-local







#### Scenario 3: Transformational Change

- Pandemic: multi-year, multi-wave
- Economy: green, diverse economy; globalized talent
- Growth:

greater share in region; inner city redevelopment

 Finances: predictable but slightly constrained

- Remote Work: 3+ days / week (40% less downtown commuting)
- Retail & Delivery: primarily online, Al-based shopping







#### 2021 Work Plan Actions

- 15 actions identified in response (Attachment 1, p.10-13)
  - 8 common 'low-risk, high-benefit' actions
    - Stress test strategic plans against the scenarios (Attachment 3)
    - Actively facilitate the evolution of the Greater Downtown
    - Offer new services to generate revenue
  - 7 scenario-specific actions





#### **RECOMMENDATION:**

Administration recommends that the SPC on Transportation and Transit recommend that Council receive this report for the corporate record.





## **Back-up Slides**



**CBC NEWS** 

#### **Alberta COVID Statistics**

Date: 19 October 2020



Chart: Robson Fletcher / CBC • Source: Alberta Health



#### Projections for Oil & Gas Peak Demand

#### 2019 (Pre-COVID) Peak Oil & Gas Demand Projections

Source	Oil Peak Demand	Natural Gas Peak
		Demand
Gregor MacDonald	As early as 2020	the second second
(Oil Fall Series)		
DNV GL Group AS	2023	2034
Bloomberg New	Approx. 2028	
Energy Finance		
McKinsey Energy	2033	2035
Insights		
Bank of America &	Mid-2030s	And a second
Shell		
IEA (Sustainable	As early as 2020	Mid-2030s
Development)		
IEA	Approx. 2040	Beyond 2050
(Business as Usual)		

#### 2020 Peak Oil & Gas Demand Projections

Source	Oil Peak Demand	Natural Gas Peak Demand
BP (Net Zero)	2019	Mid-2020s
BP (Rapid)	2019	Mid-2030s
BP (Business as	2019	Beyond 2050
Usual)	(flatline to 2030s)	
IEA	Early 2030s	Beyond 2030
(Delayed Recovery)		
IEA	Mid-2030s	Beyond 2030
(Stated Policies)		
OPEC	Beyond 2040	



#### Projections for Oil Peak Demand (pre & post COVID)

Global oil demand by sector

MMb/d Buildings # Power Other Chemicals Other industry Other transport Road transport



Source: McKinsey Energy Insights' Global Energy Perspective, January 2019

