

# Geospatial Construction Starts Project



- An exploratory interdepartmental joint venture (Canada Mortgage and Housing Corporation/Statistics Canada) project to develop a leading-edge method for estimating housing starts using satellite imagery combined with machine learning/artificial intelligence
- Used a targeted approach to detection which leveraged geolocated building permits based on parcel ID
- Key Constraints:
  - Access to administrative data (parcel data)
  - Data Costs
- Super-resolved Sentinel2 data (Gravity Challenge & Lattitudo40)
  - Provides us with a 98% cost saving compared with native high-res data
- Will improve estimates for the Investment in Building Construction program
  - \$221B in 2021, representing approximately 7.6% of the Canadian economy

