

# York: Challenges

## Circumstances:

- 7 million tourist visitors per year.
- Large commuter catchment area.
- Historic City – constrained built environment.
- 20,000 households with no off-street parking (20%).

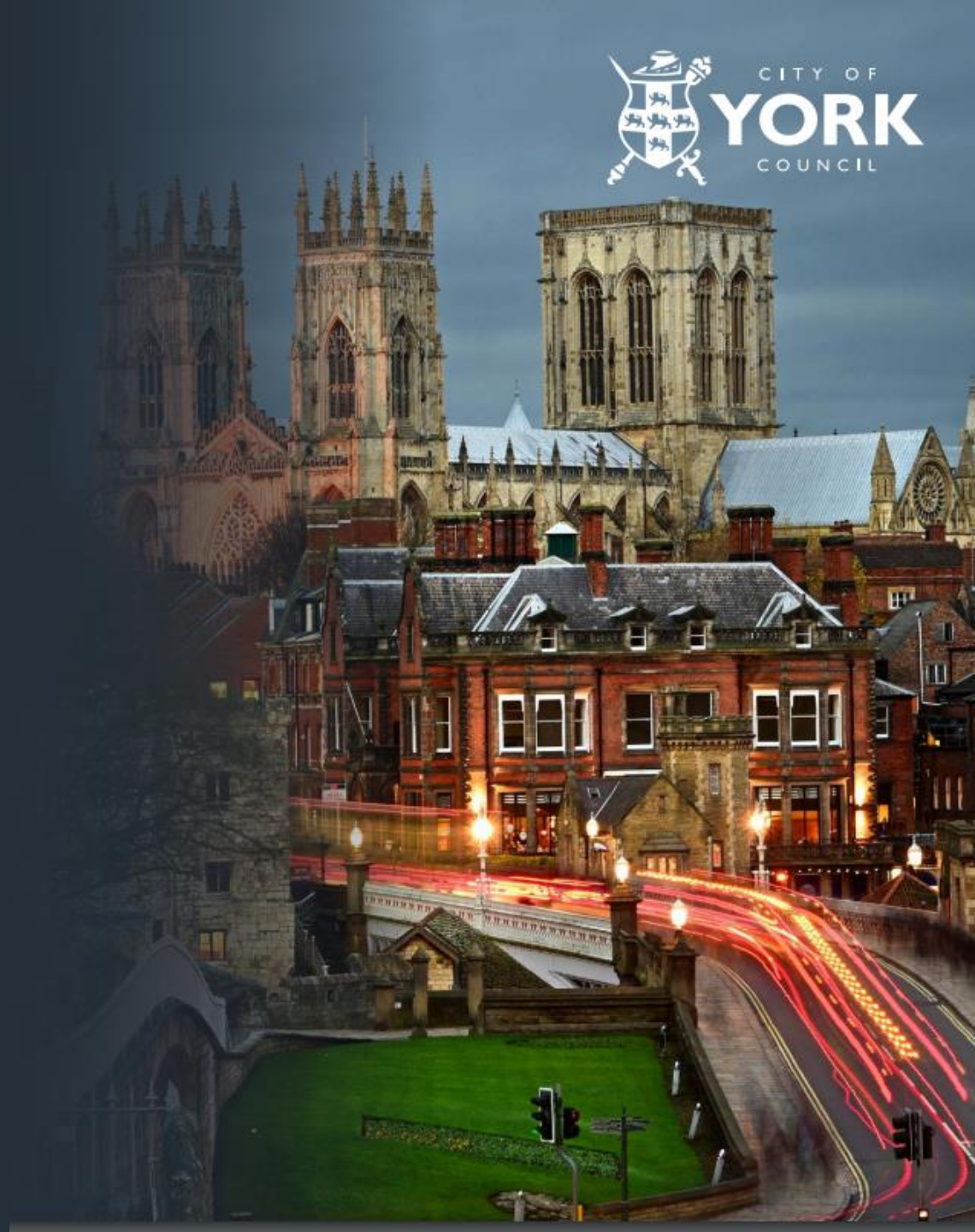
## Delivery:

- Clear strategy required.
- Funding source.
- Equitable solution for all user groups.
- Inspire users.



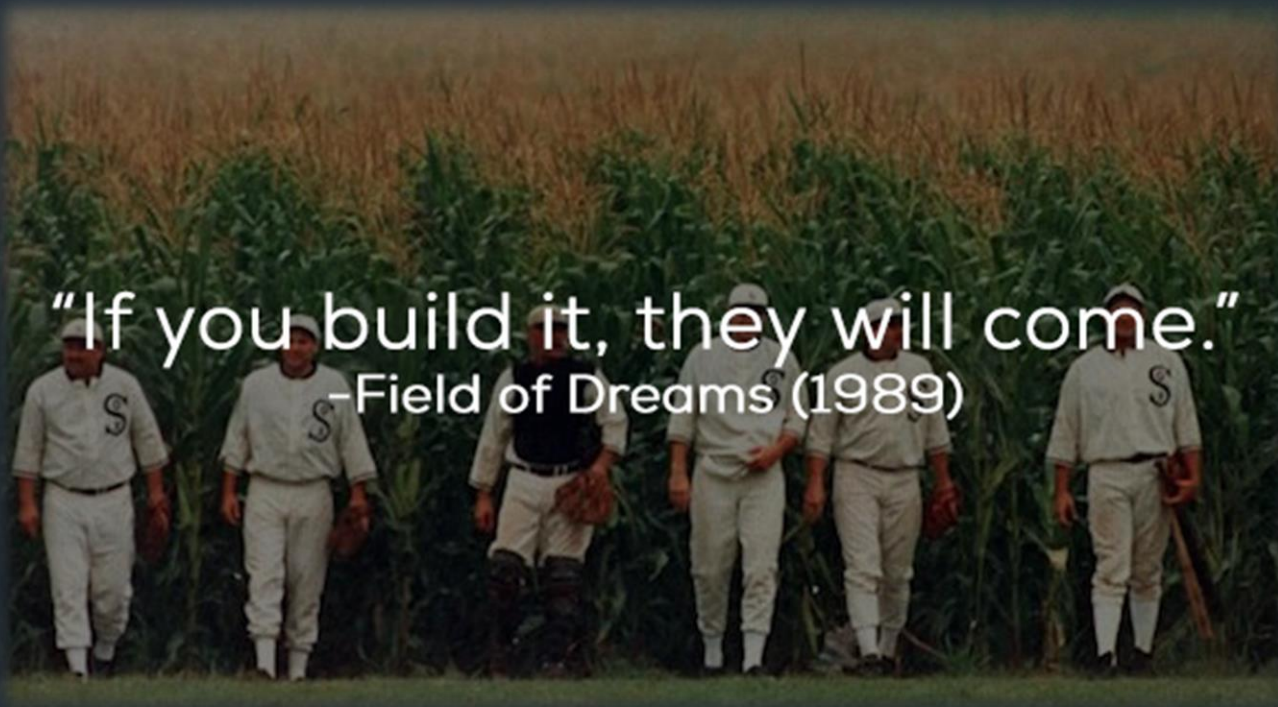
# York: Strategy

- Council Owned Sites
- Council Owned Assets
- Standardise Chargers and Back Office
- Categorise Users:
  - Dwell Time
  - Main Reason for journey
  - Frequency of visit
  - Ability to use other charging
  - Identify where off-street is not possible
- Appropriate Charger Types:
  - Long Stay – Fast 7kW
  - Short Stay – Rapid 50kW
  - Don't Stay – Ultra Rapid 175kW



# Why Invest in EV Charging?

We are Uniquely positioned to provide strategically located infrastructure.



Data from 2016

Tackle difficult business cases

Tariff Control: Ensure good value for money.

Ensure core network coverage is delivered.



# Delivery

- 2021
  - 2 x Ring Road HyperHubs
  - 20 x Rapid Chargers
  - 300 x Fast Chargepoints
- 2022
  - 1 x City Centre HyperHub
- Future Potential for 6 Hubs servicing arterial routes
- Compliments commercial sites





# HyperHubs

- 4 x Rapid, 4 x Ultra-Rapid (175kW)
- 100kW peak Solar PV
- 500kW Battery Storage
- Accessible for persons with disabilities
- Prioritise User Experience





# Usage Model 1

- Sufficient Power
- Maximise Solar Usage
- 30 Fast Chargepoints
- Grid Frequency Response



# Usage Model 2

- Usage Model 2:
- 400kVA Grid
- Maximise Solar Storage
- Peak Load Shaving
- Load Balancing

