

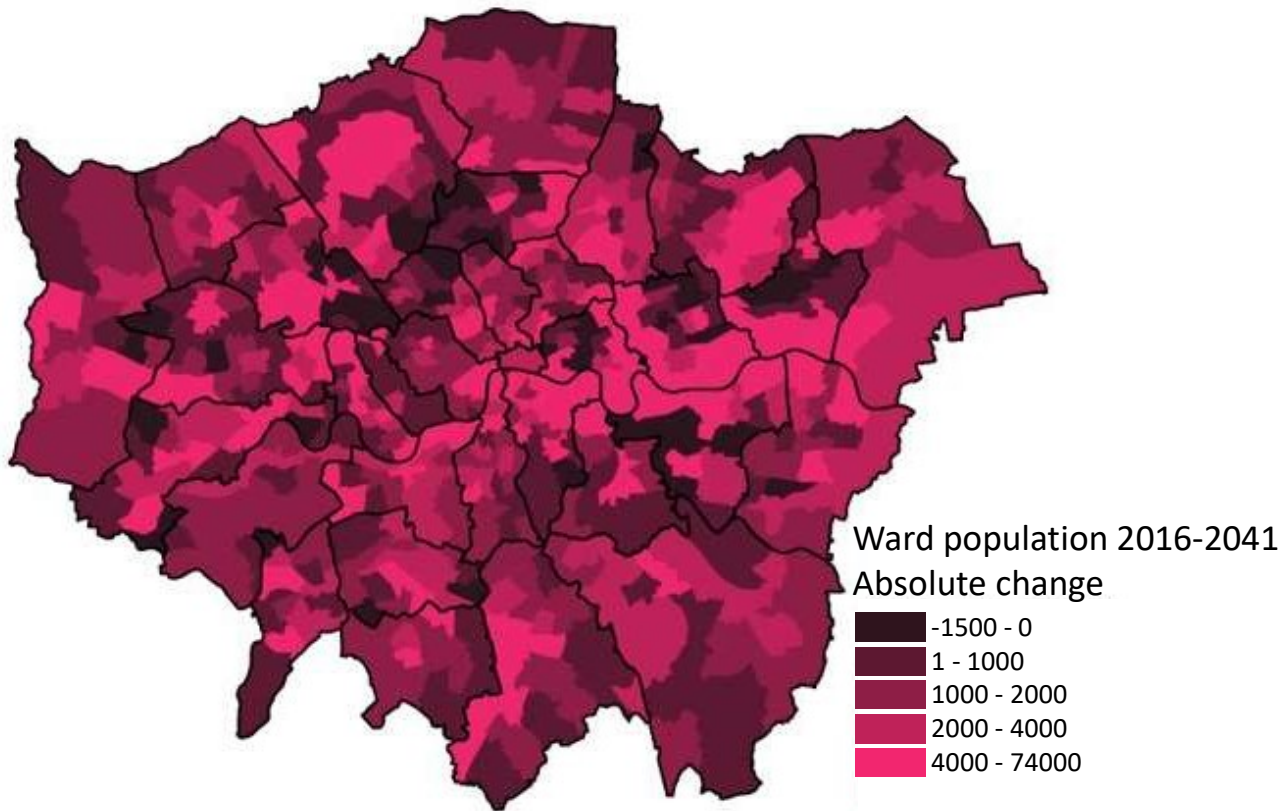


(Re)modelling London

Key lessons from the first 8 months

Greater London Authority
Marta Lapsley and Chris Fairless

Modelling London's population



School place planners



Transport planners

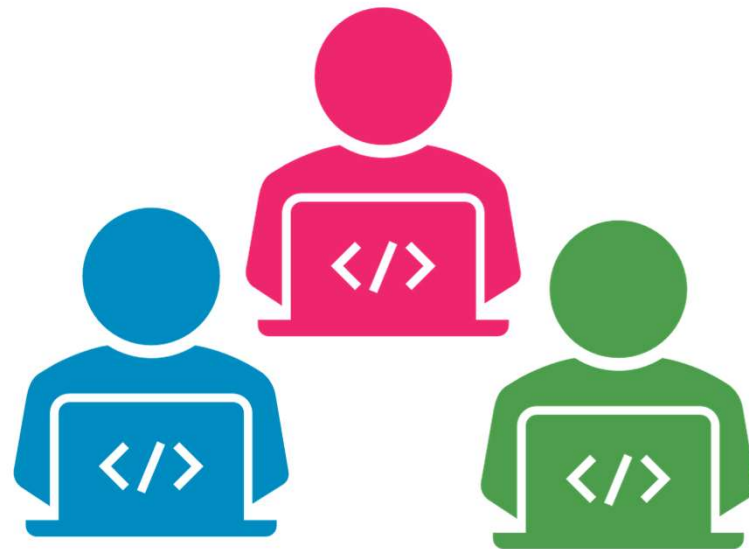


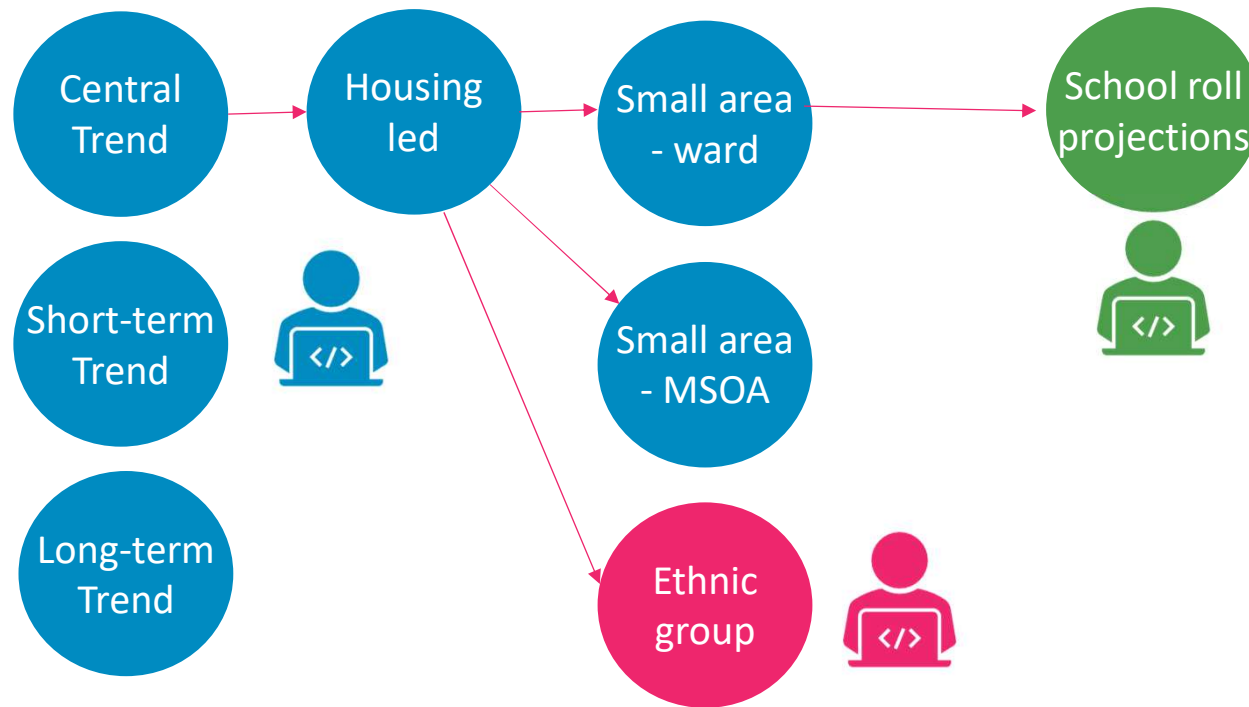
London Plan

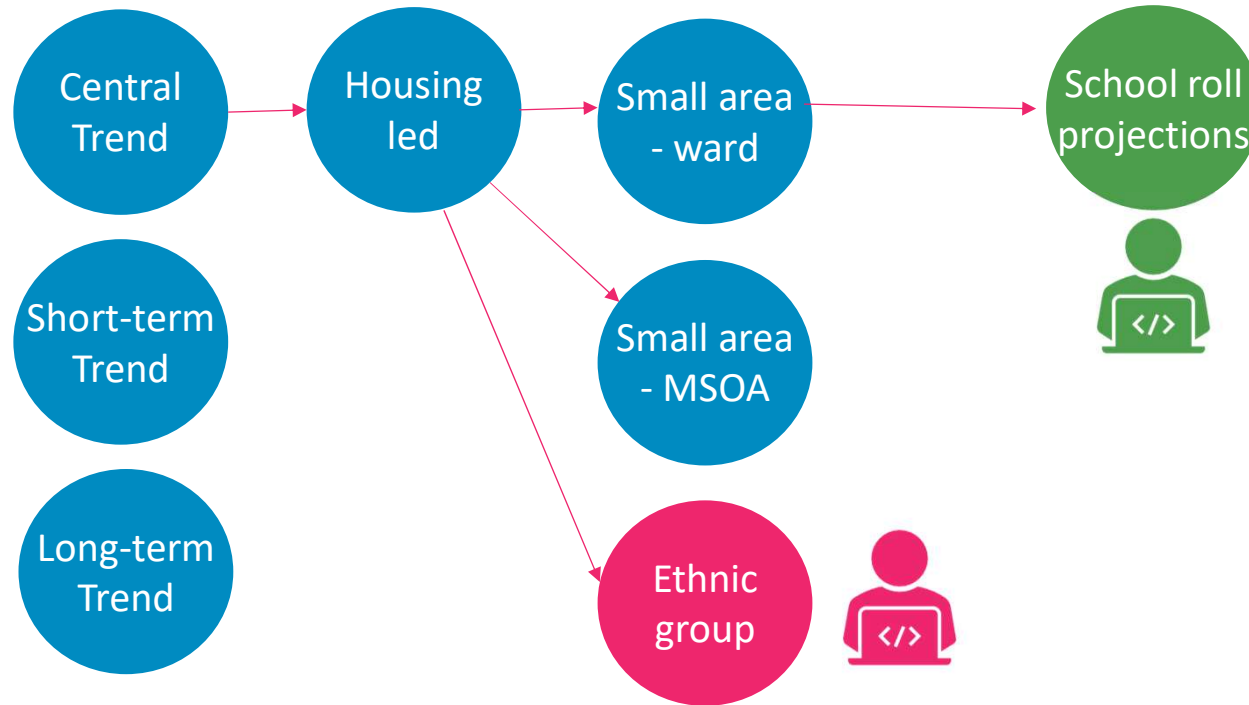


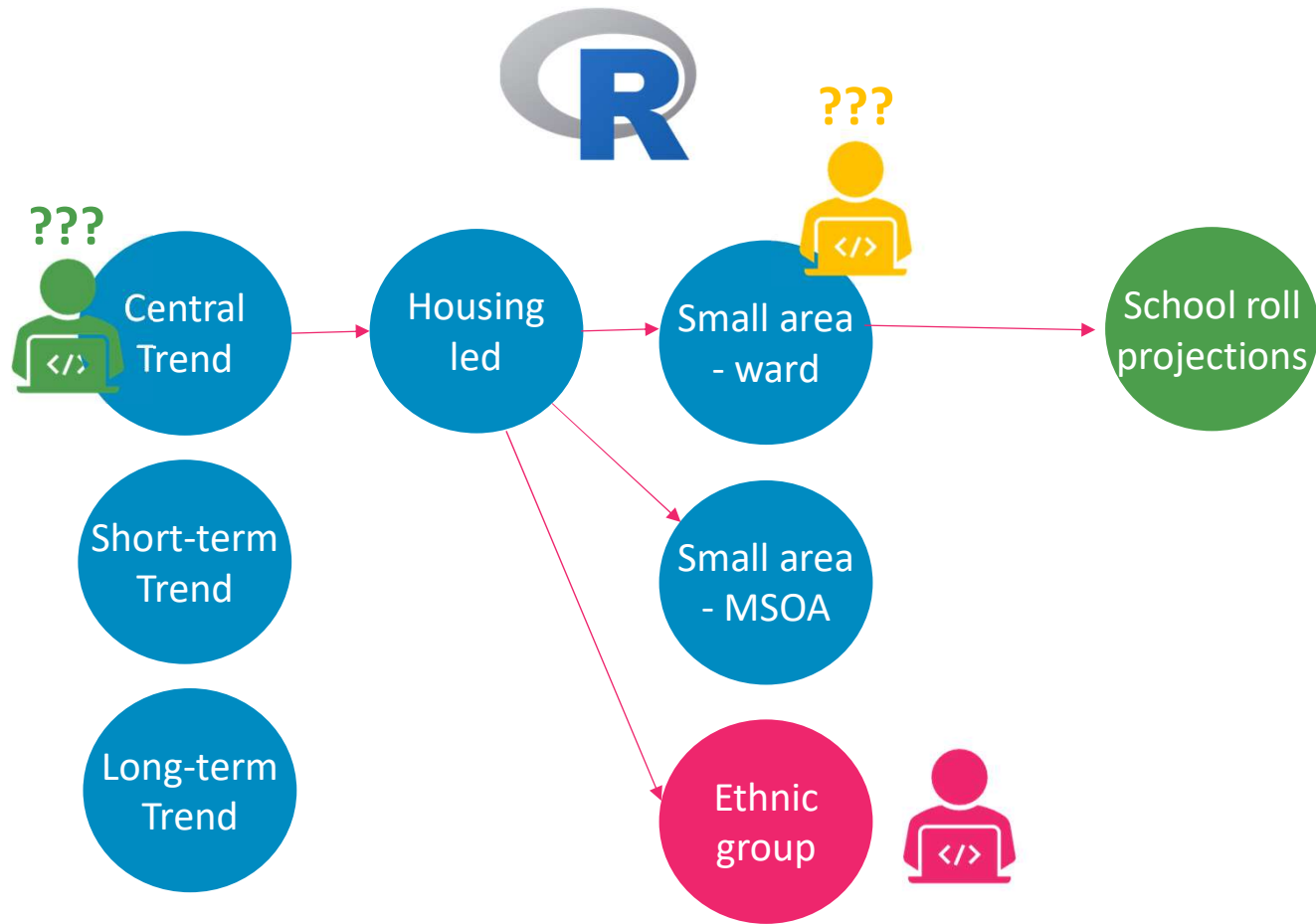
Other local service planning

Where we were 8 months ago...









Grand ambitions on a wobbly base.....



..... time to rethink
and refactor

CITY INTELLIGENCE

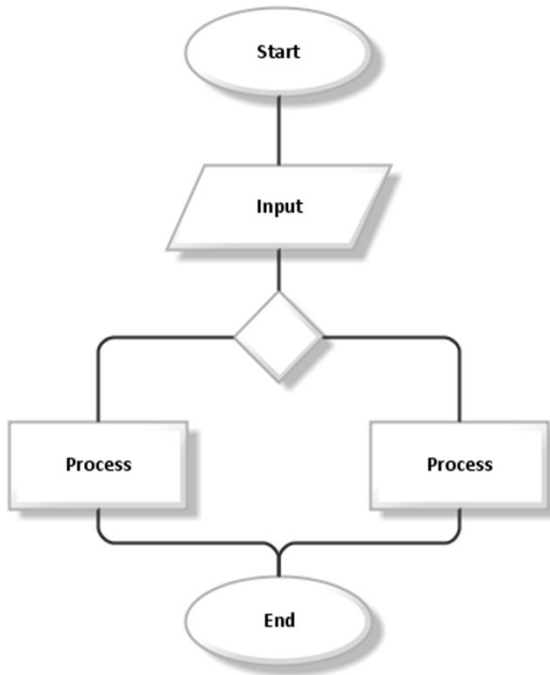


Goals

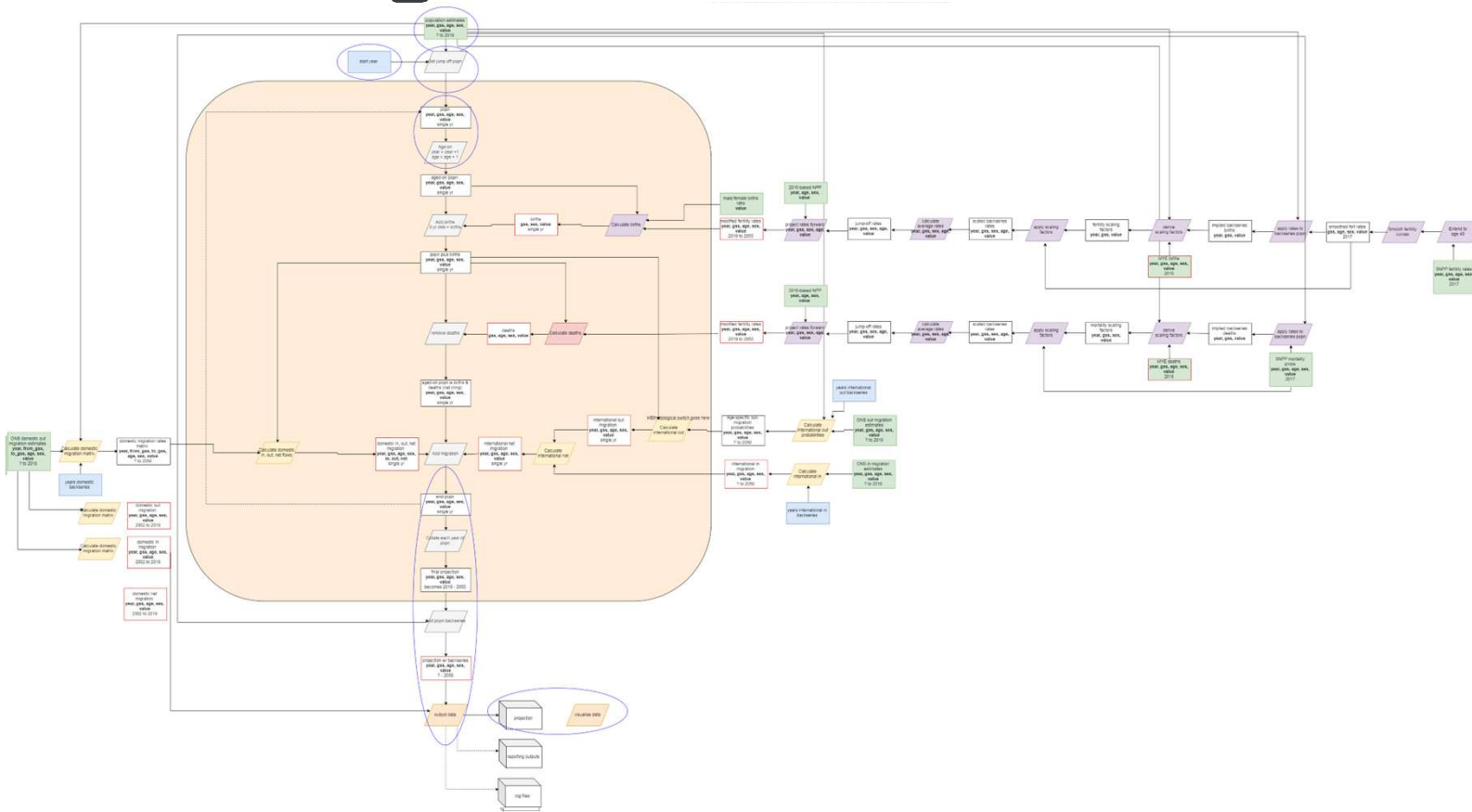
- Robust to changes
- Easy to expand
- Accessible
- Reproducible results
- Clear audit trail

| Our new approach....

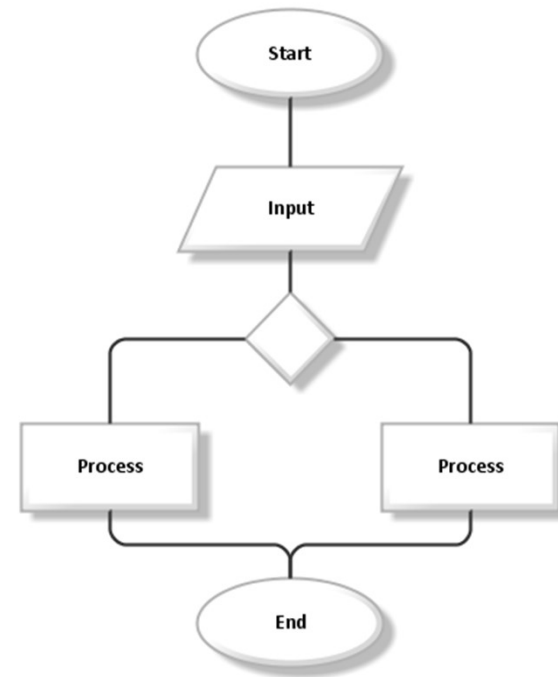
No coding until we've agreed what we're coding



No coding until we've agreed what we're coding



Everything as a module



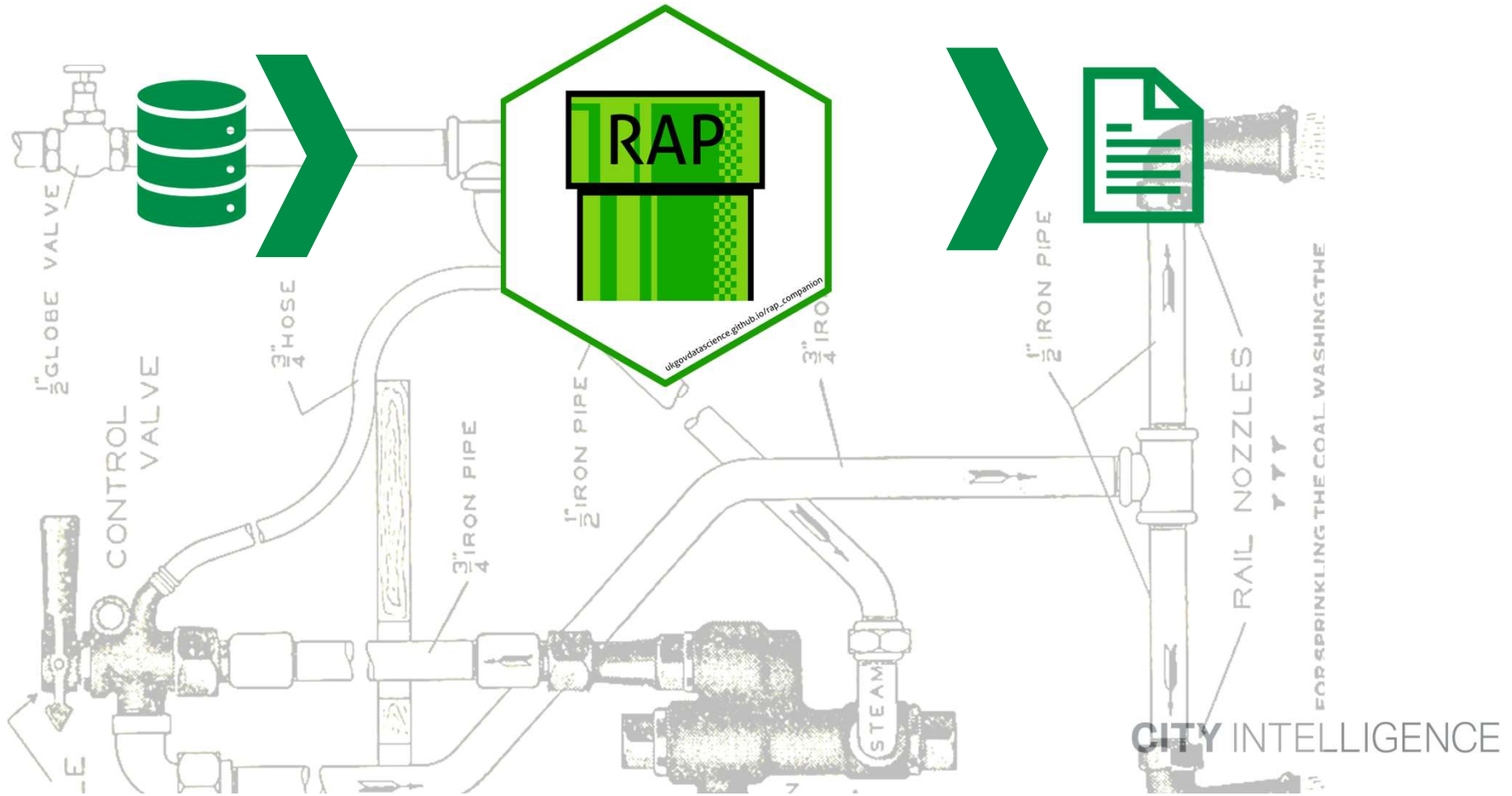
Test as you go



Document as you go



Full reproducible pipeline



Two pairs of eyes on everything



git



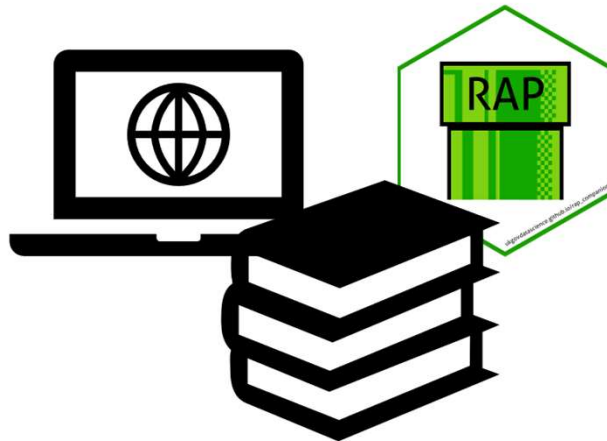
What it took



What it took



What it took





Payoffs

- Flexibility on who works on what
 - More resilient team
 - Easy for staff member to join mid-way
- Aids recruitment and retention
- Easy to re-use codebase
- Ready to expand our models



Where to next?

Strategic

- Open source?
- Maintenance

Tools

- Environment control: renv + docker?
- Data version control
- Issue tracking



Thank you!

Questions?