In-Vehicle Information / Virtual VMS Portsmouth's Use-Case Experiments Autumn 2023 Update

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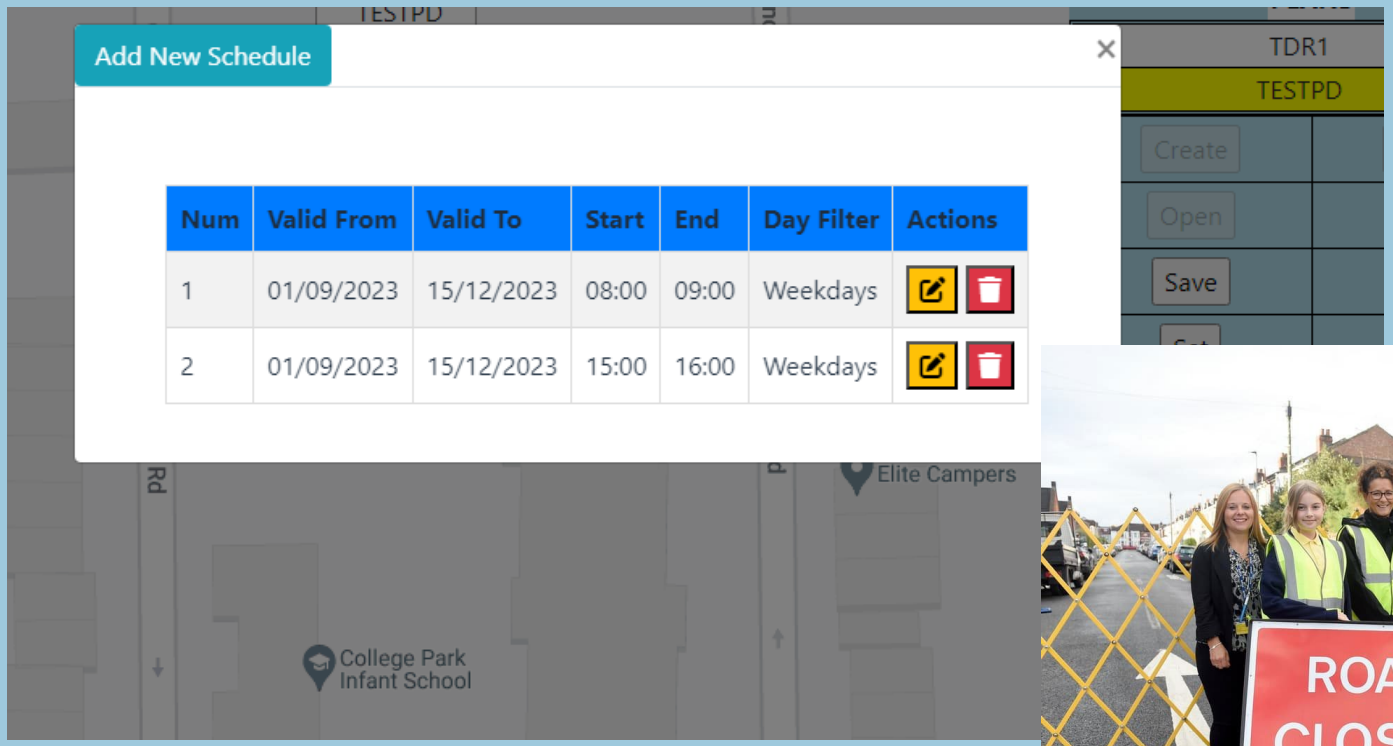
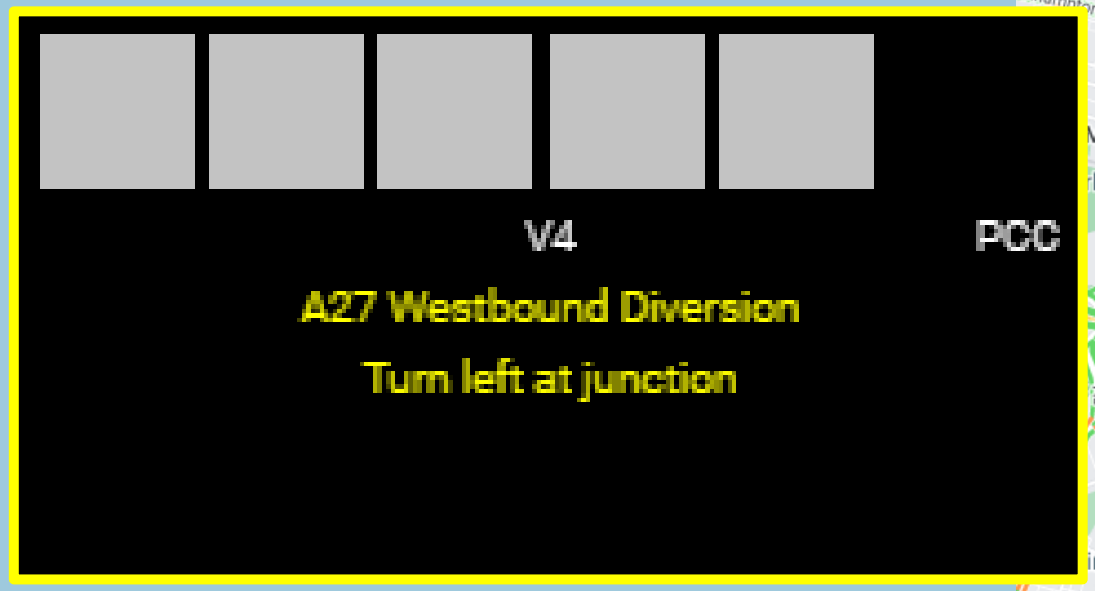
Some recent things done:

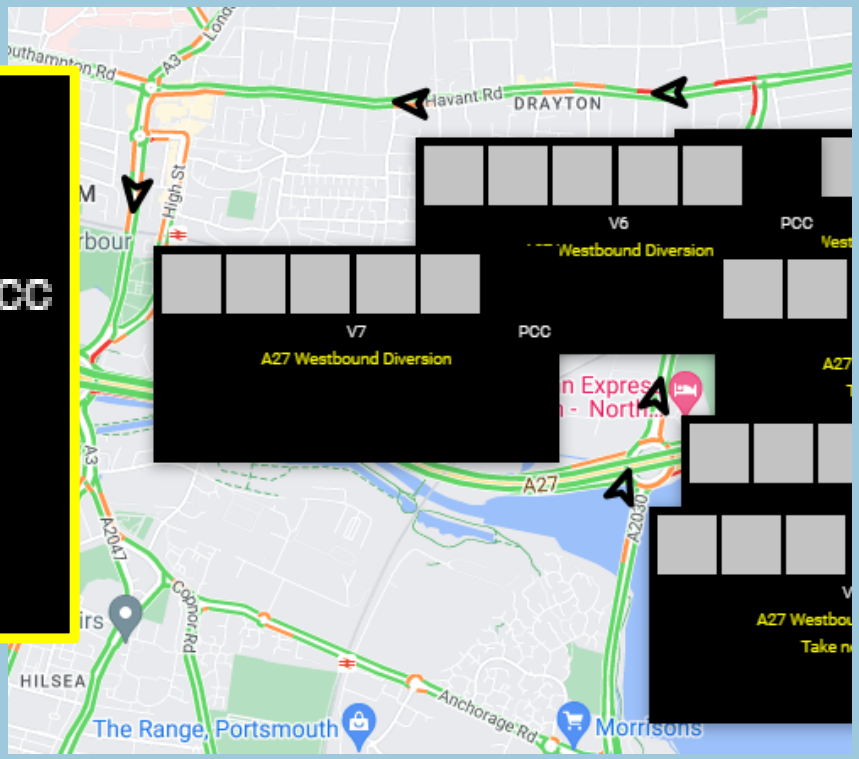
- **Slow moving hazards, e.g. grass-cutting, gritting, abnormal-loads.**
  - **Virtual Amber Beacons**

- **Scheduling of alerts – start & end time, weekly & daily patterns.**
  - **e.g. School Street road closures**

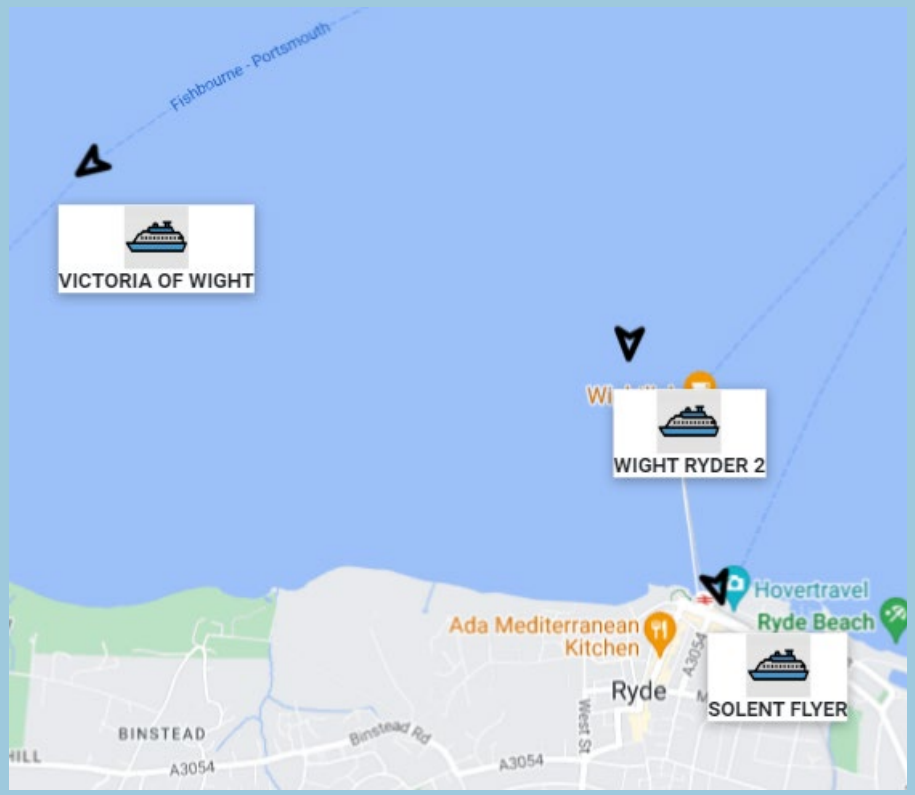


- **Grouping of VVMS objects into a “plan” that can be set, either manually, scheduled or via a roadside IOT trigger.**
  - **e.g.Tactical Diversion Routes – guide drivers along route via a set of notifications.**





- **Tracking of marine vessels via AIS, comparison against timetable and generation of service disruption alerts.**
  - **e.g. IOW car ferry, passenger ferry and hovercraft.**



Some thoughts:

- We are exploring and demonstrating the “art of the possible” – we build small and fast.
- We test everything end-to-end (and try to break it!).
- We have demonstrated the ability to deliver useful information to drivers directly into their vehicle and also to generate network management alerts.
- We are only limited by our imagination.
- Standards? – messages, display style, priority etc.
- Drivers will be limited in the information that they can process, but connected & autonomous vehicles will not be so constrained.