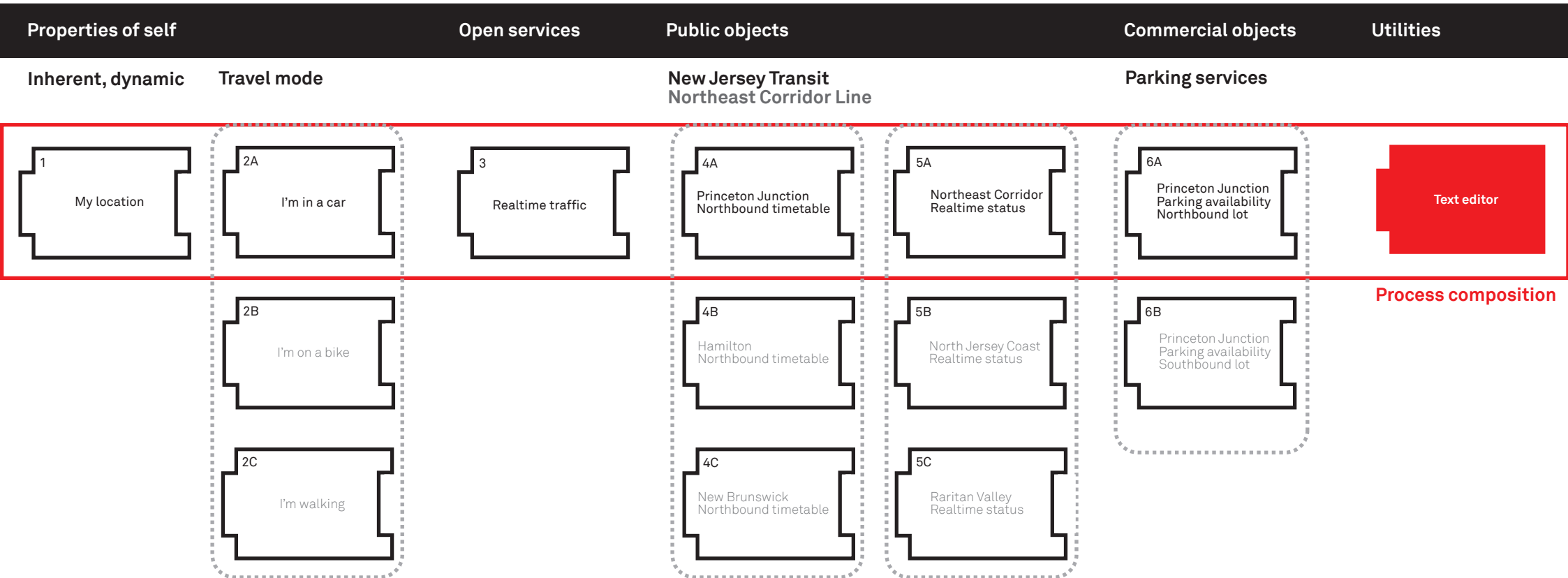


Input from available objects



Example output: Natural-language arguments and operators

Hi Ellen!

It's 11.12 right now.

Option 1 If you take **Washington Road**, you'll *definitely* make the 12.05 train, and get into New York Penn Station at 1.21.

Buy tickets for the 12.05 train.

Reserve parking at Princeton Junction North lot.

Option 2 If you take **Alexander Road**, you'll *probably* make the 11.30 train, and get into New York Penn Station at 12.48.

Buy tickets for the 11.30 train.

Reserve parking at Princeton Junction North lot.

I'd like to see more options

Notes

1. Network time is a given.
2. Distance to destination is measured from current location (object 1 above), a primary dynamic attribute.
3. Average speed is either measured directly, or inferred from travel mode (object 2A).
4. Given these quantities, and in light of realtime traffic information (object 3), a reasonable estimate of arrival time at destination can be made.
5. Mapped against timetable (object 4A), it becomes possible to project which trains the user is likely to be able to meet.
6. Natural-language confidence modifiers ("definitely," "probably") are applied. These are chosen by the user herself in the text editor.
7. The user may also select and place buttons representing operators ("buy," "reserve") which are organic to the relevant object arguments. Clearly, the additional assumption here is that there are widely-adopted open interoperability specifications for such basic operations.
8. Note the heterogeneity of object origin: Some are inherent, some are provided as free open services, and some are commercial.

A rough sketch of user-composed functionality in an ecosystem of open semantic objects.

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