



Figure S1 | 4DM 'traffic' map for small-molecule drug development. **A** | The 4DM map, with each neighbourhood colour-coded as in Figure 1. **B** | A 'traffic map' version. Steps identified in the mapping process as being characterized by the greatest cost, time or likelihood of failure are highlighted in dark red; progressively less problematic roadblocks are identified in pink and orange. All other steps are indicated in grey rather than the green seen in some road traffic maps. A version of this map is available to download at <https://ncats.nih.gov/translation/maps> and licensed to the public under the Creative Commons Attribution-Share Alike 4.0 license, which allows use and adaptation as long as the user provides attribution and shares any adaptations back to the public under the same license.