

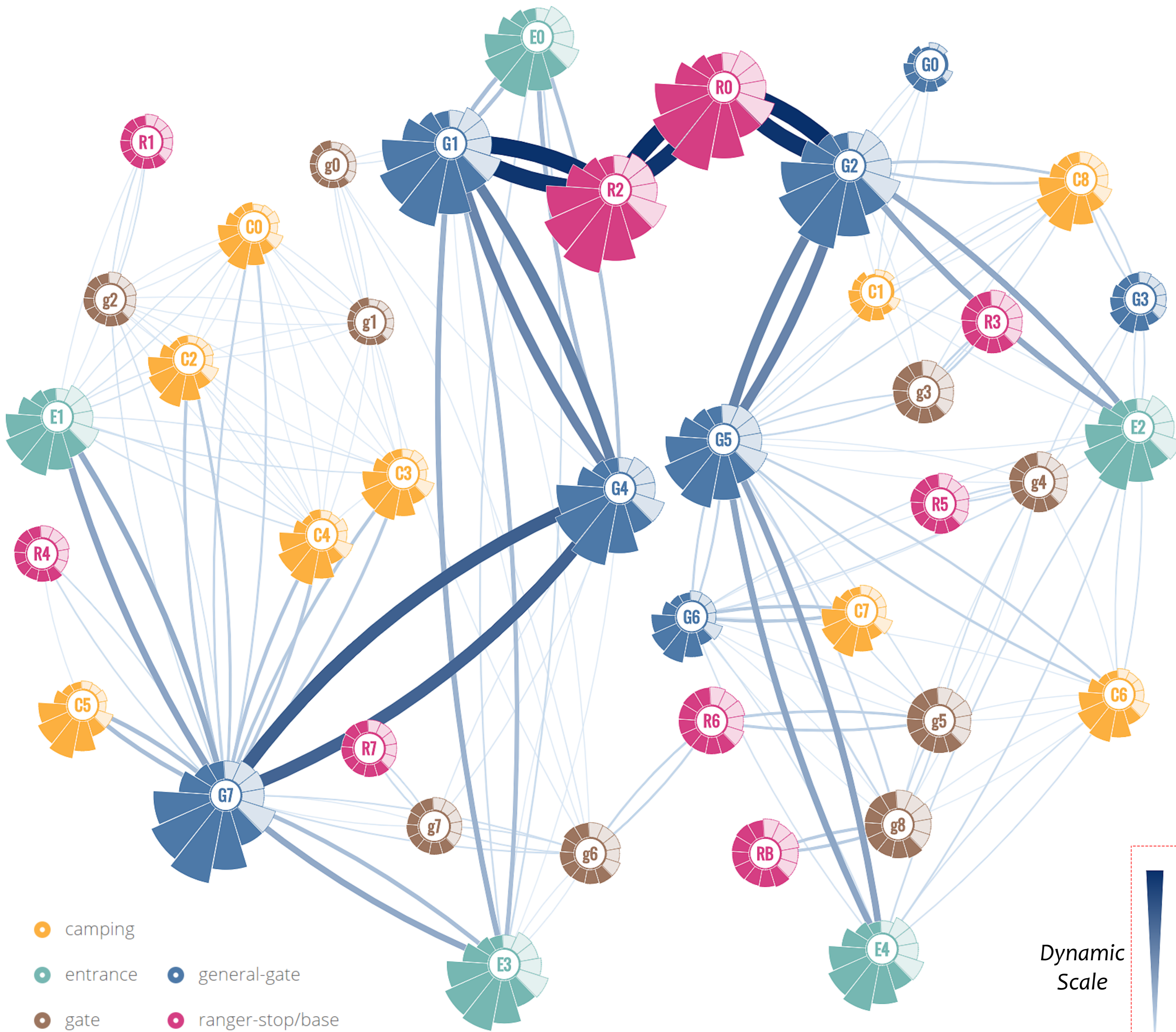
CLOCKPETALS

INTERACTIVE SEQUENTIAL ANALYSIS ON TRAFFIC PATTERNS

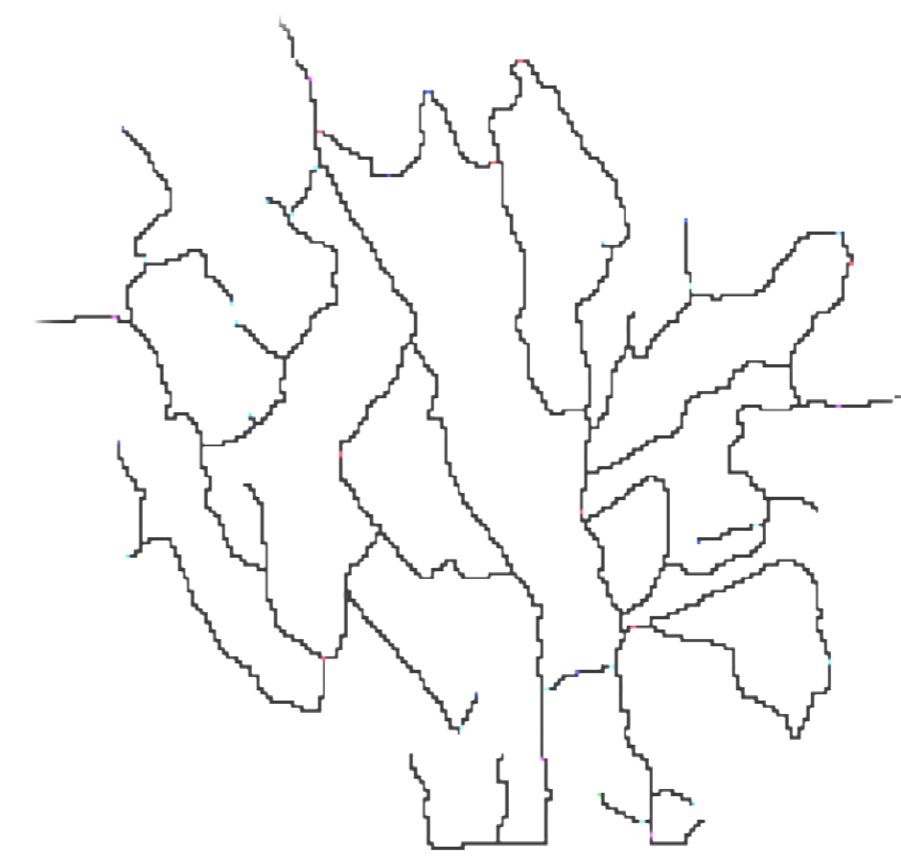
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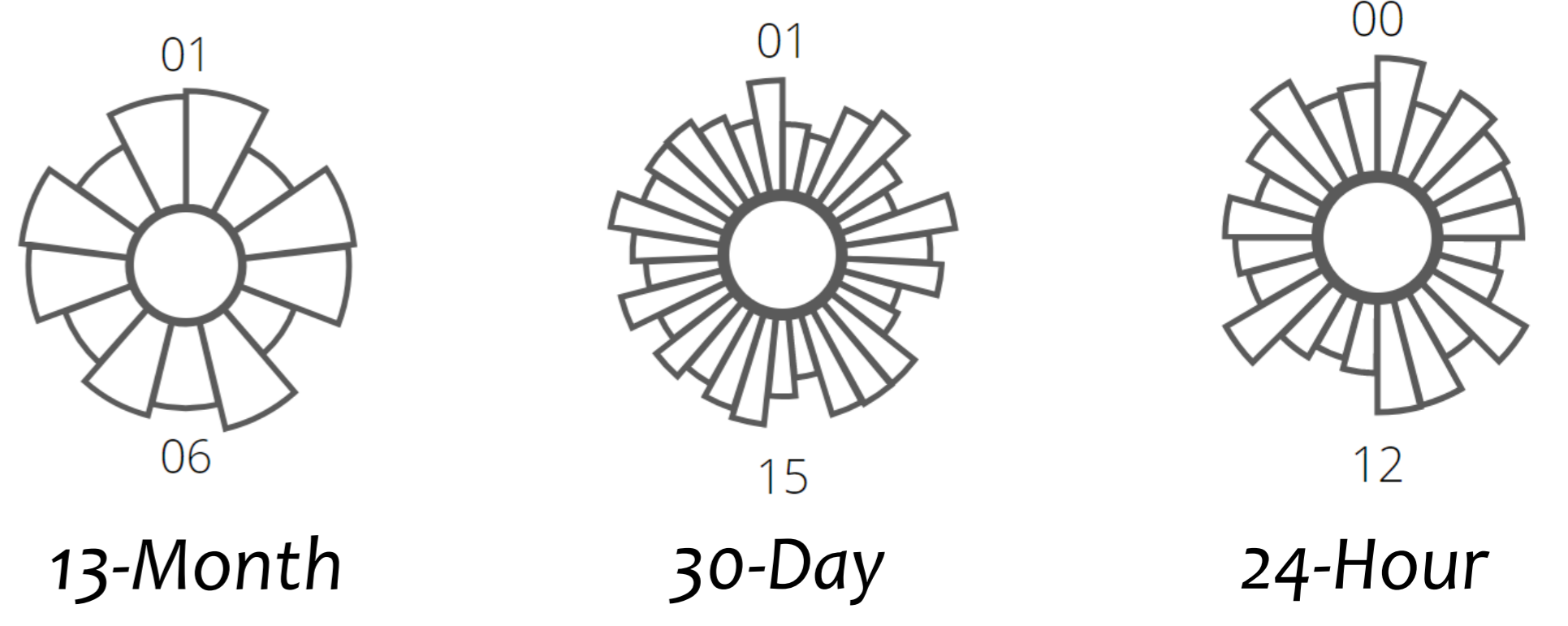
2017
VAST
CHALLENGE



- camping
- entrance
- gate
- general-gate
- ranger-stop/base



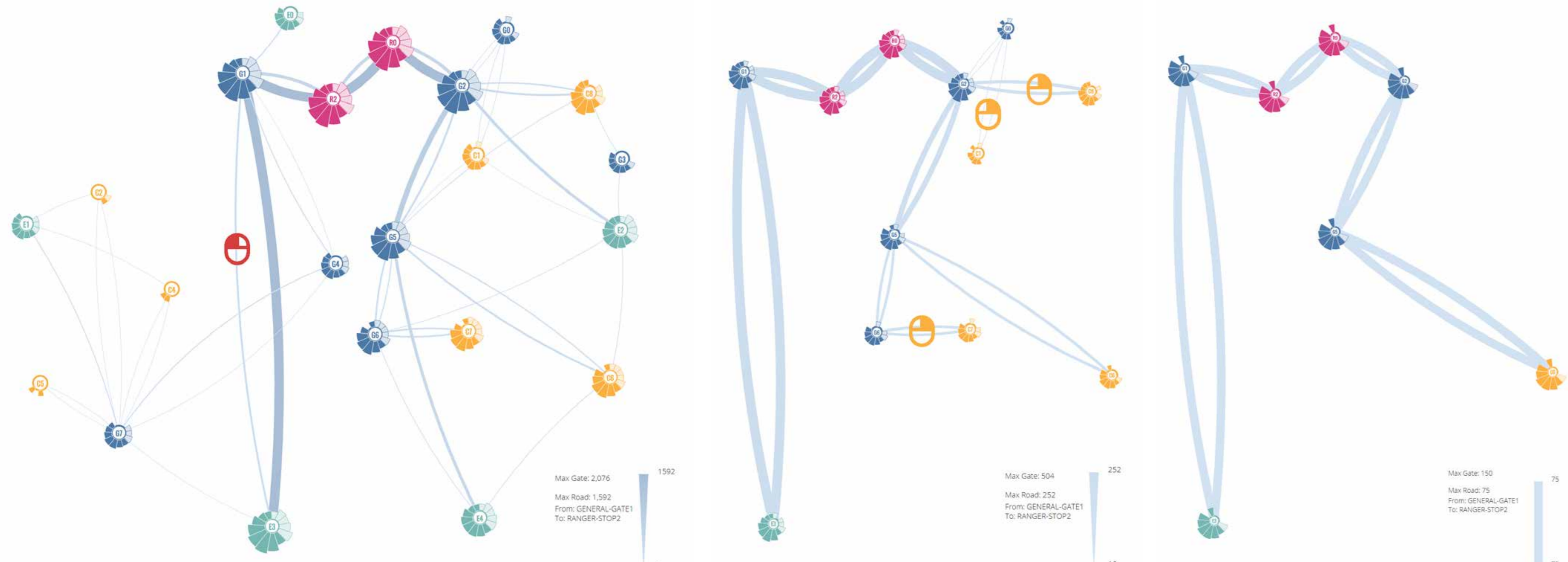
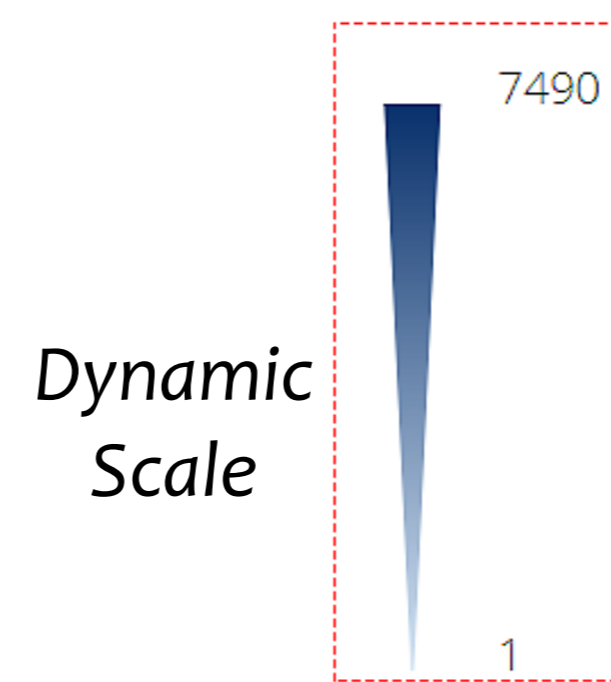
- Map abstraction into a route network.
- Size of the flower's center represents site traffic.
- Petals of 13 months aligns clockwise around the site.
- Color represents site type. Opacity differentiates year.
- Area of a petal shows the traffic within a time period.



Vehicle Filter

Month Filter

Route Filter



Clicking on a route displays the vehicles have traveled on it, and right-clicking on one deletes vehicles.

Vehicle movement through points of interest can be recognized as a sequence of events within a spatial context. ClockPetals as a visual analytics system is designed to help the user discern the short- and long-term traffic patterns and identify unusual site-access events from multiple dimensions.

Pin view explicitly displays vehicles' camp site and ranger stop visit lengths. The length of the pins represent the vehicles' visit lengths. The pins are arranged clockwise by time. The pins also include weekday/weekend tags. The colored dots at the end of the pins differentiate vehicle types, and gray circles distinguish the time-scales. Clicking on any pin (vehicle) would display its route.

