

Design concepts

— The Things Network

CLEVER°FRANKE | 15-06-2018

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— Reasoning

- Data transparency
- Show size & impact
- Clarifying how TTN works
- Motivate to participate

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– Data insights

- Uplinks
 - Downlinks
 - Apps
 - Devs
 - Gateways
 - ID's (a.k.a regions e.g. 'ttn-broker-eu')
 - Apps with the most uplinks
 - Apps with the most downlinks
 - Devs with the most uplinks
 - Devs with the most downlinks
 - Uplinks overtime
 - Downlinks overtime
 - Hour or day with the most uplinks
 - Hour or day with the most downlinks
 - Hour or day with the most uplink bytes
 - Hour or day with the most downlink bytes
- Percentage bandwidth x with spreading factor x
 - Uplinks vs. bandwidth
 - Downlinks vs. bandwidth
 - Uplinks vs. spreading factor
 - Downlinks vs. spreading factor
 - Gateways responsible for half of uplink network traffic
 - Hour or day with the most uplinks
 - Hour or day with the most downlinks
 - Hour or day with the most uplink bytes
 - Hour or day with the most downlink bytes
 - Active gateways (online at least once during period)
 - Online ratio of active gateways during period
 - Gateways with online ratio ≥ 0.99 during period
 - % of gateways with online ratio ≥ 0.99 during period
 - Uplinks vs. gateway locations
 - Downlinks vs. gateway locations
 - Meetups vs. Locations
 - Gateways responsible for half of uplink network traffic vs. Locations
- Community published
 - New post
 - New meet-ups
 - New gateway
 - Story is public on Labs
 - New group on Labs
 - New partner
 - New community
 - Reach N contributors
 - Community becomes official
 - New member community
 - Update community page
 - Nearby community is published
 - Nearby community official
 - Nearby community meetup
 - New community resource
 - New core member
 - New story from community contributor
 - Month Anniversary Community
 - Year Anniversary Community

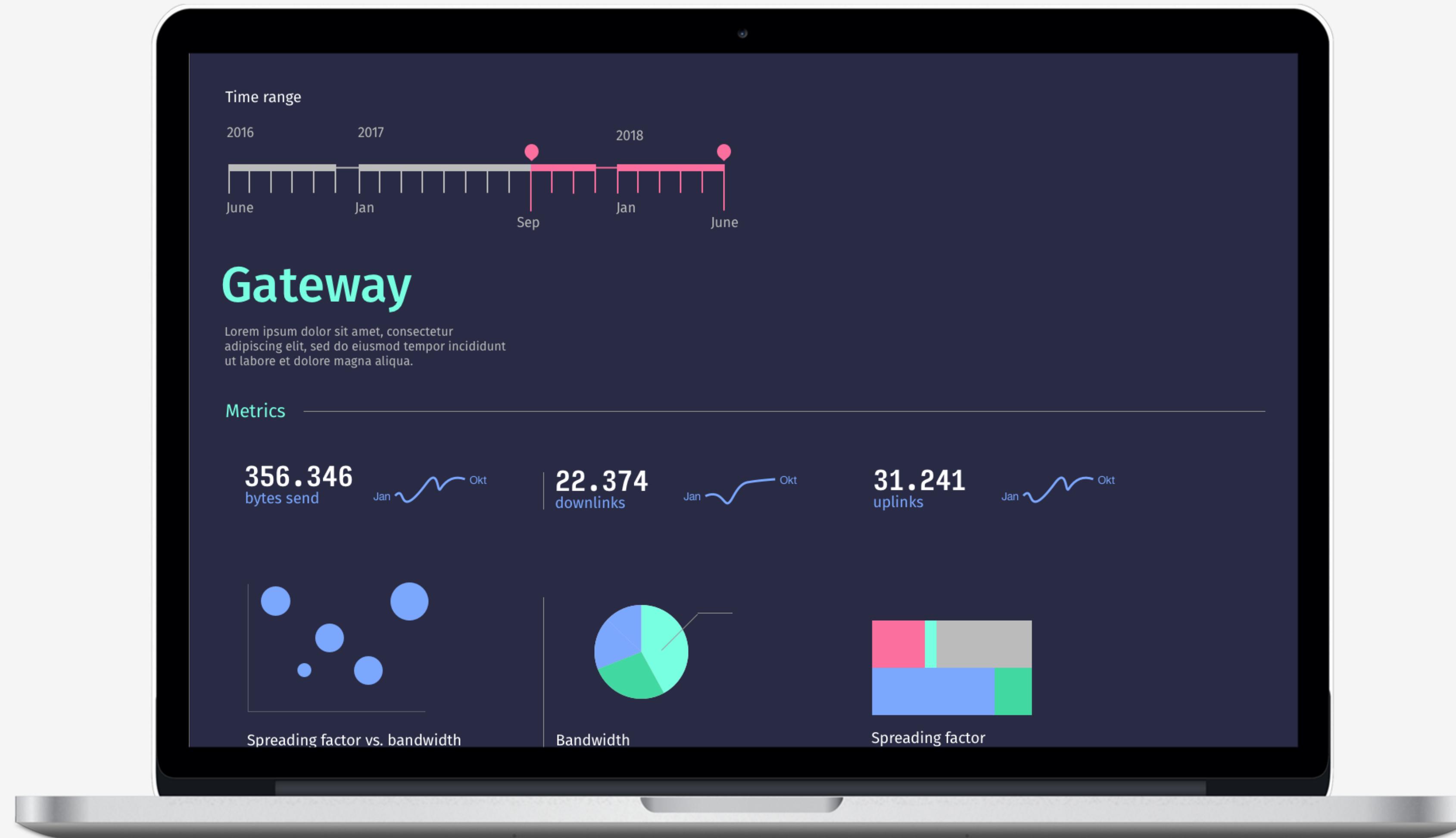
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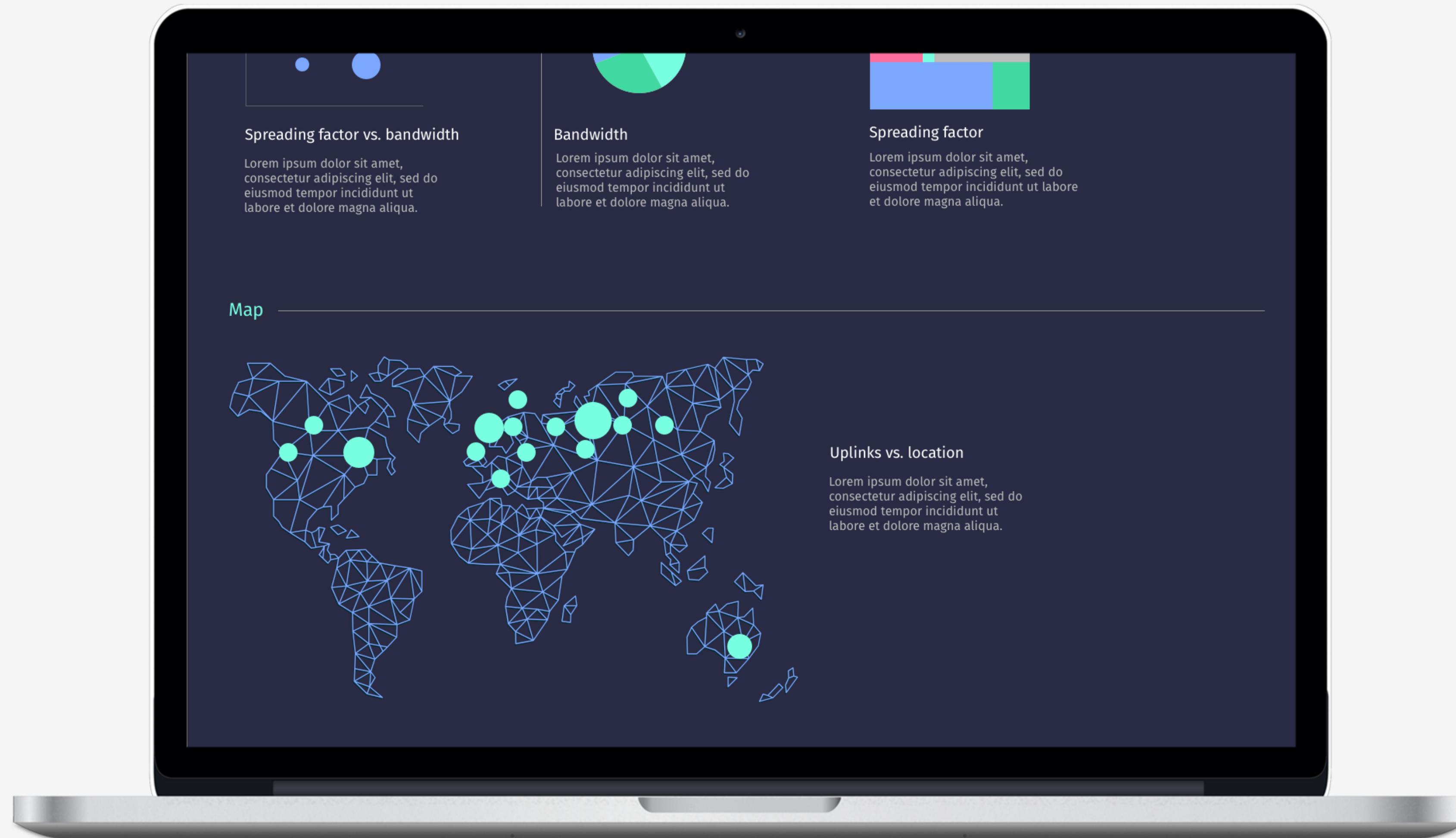
– Concepts

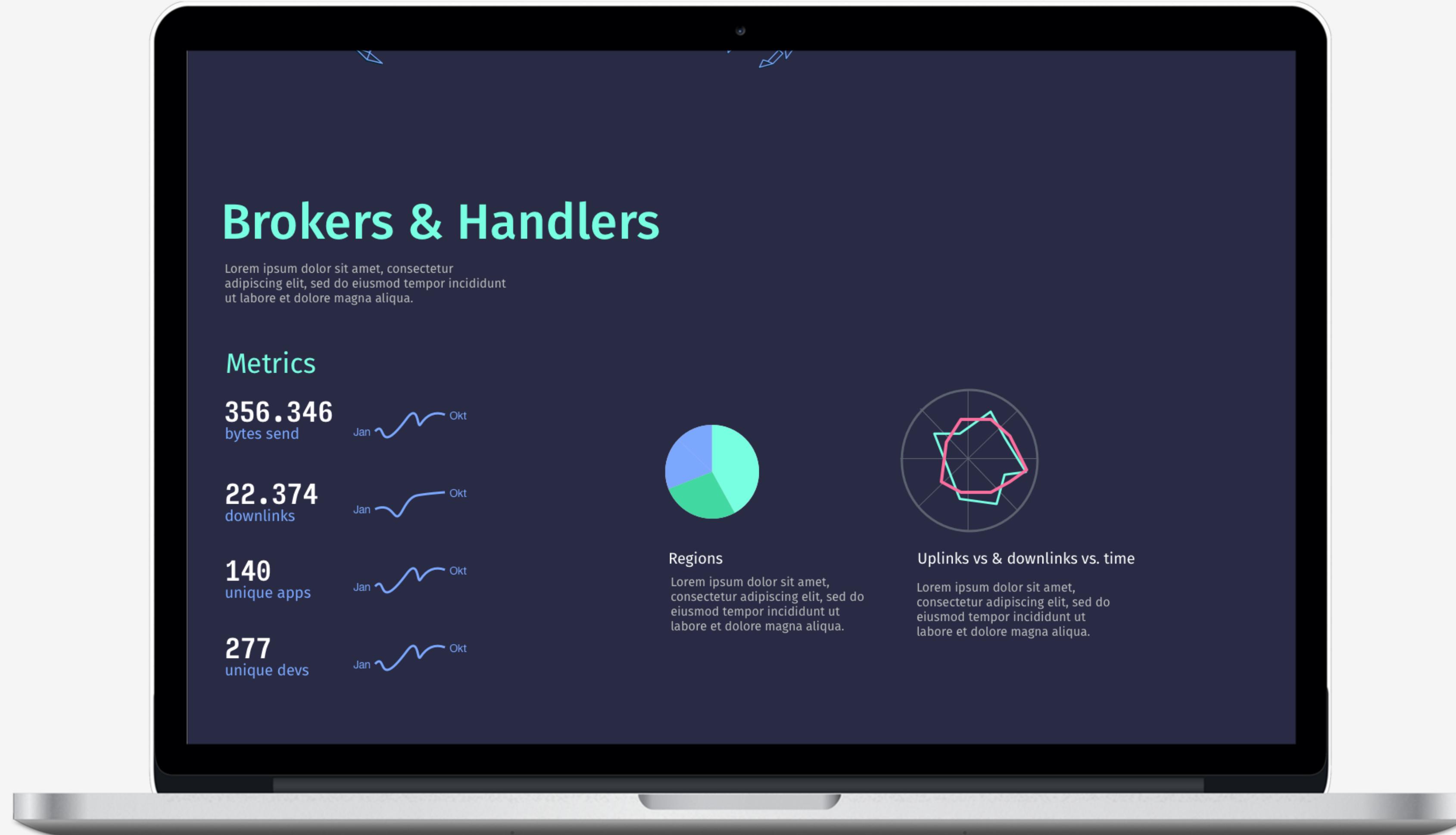
The following designs are focused on the concept rather than the final visual representation.

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— Performance Dashboard







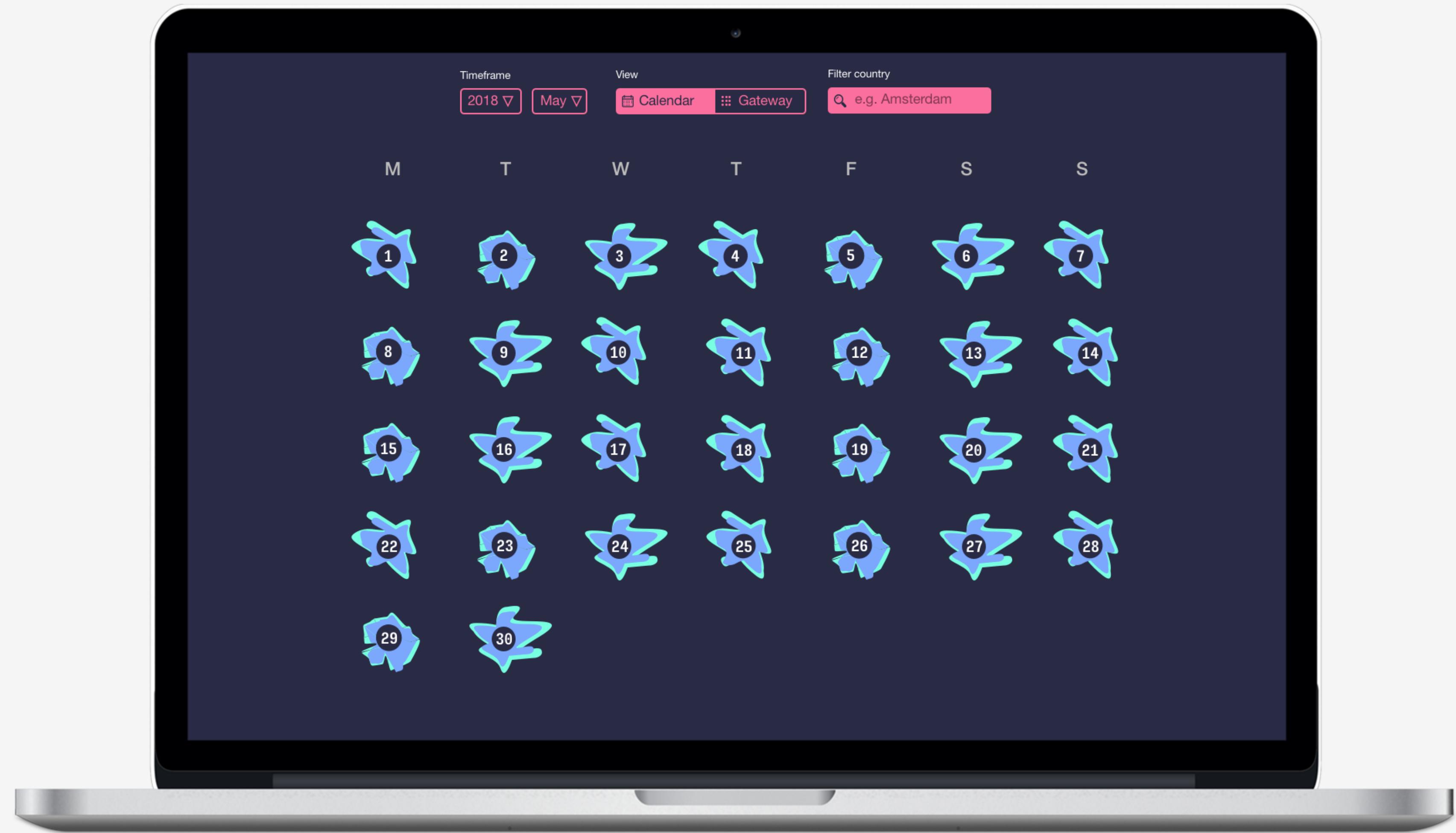
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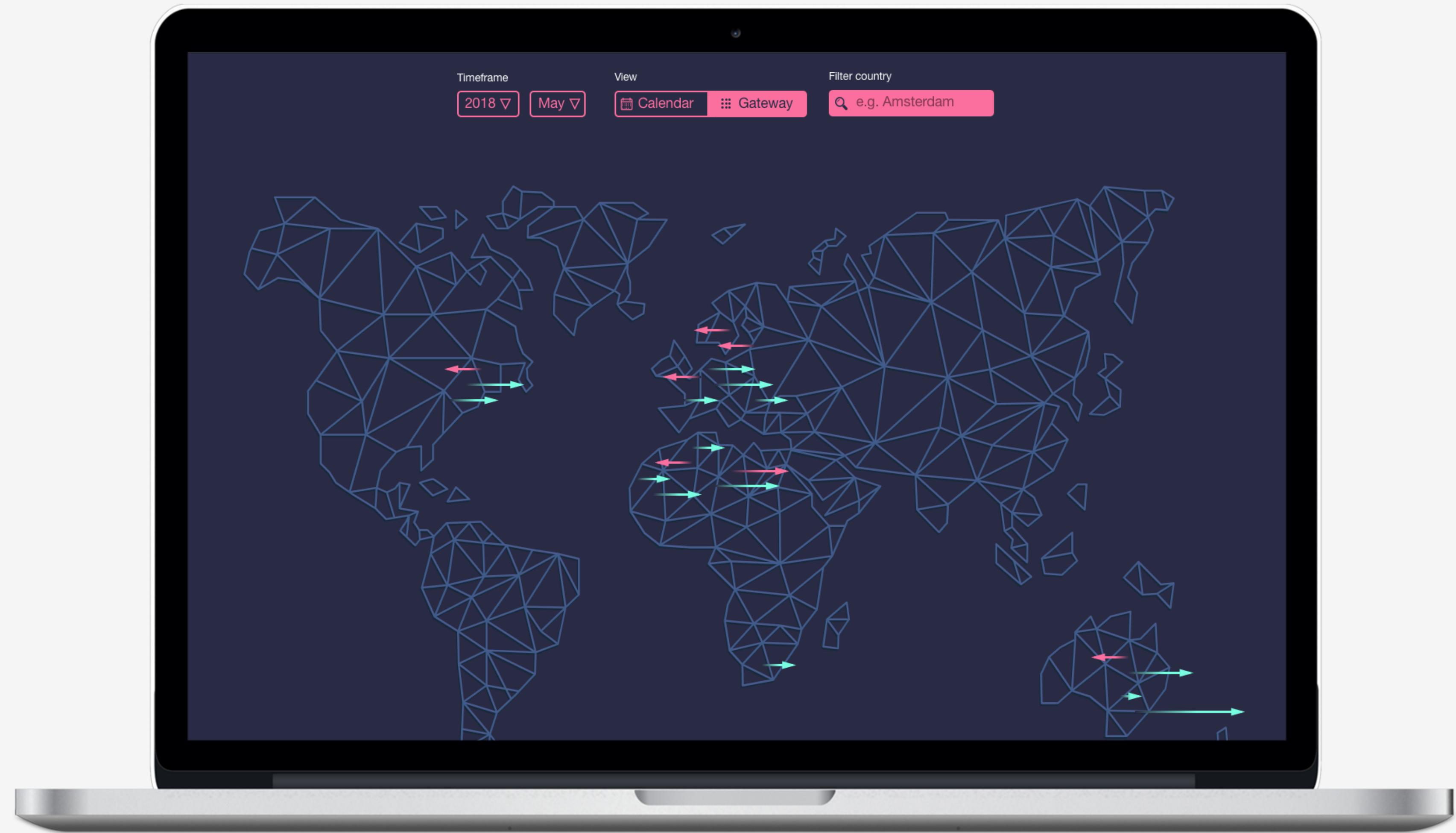
– Packet traveller



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– Calendar





– Next steps

1**Full data access & analysis****2****Style guide****3****UX iterations****4****Prototyping**

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– Data uncertainties

- Community data?
- Does `noc` contain all the active/online gateways? (see only ±1500)
- Locations of the gateways
- How feasible is a ‘real-time’ integration? If so, who would be responsible for that.
- `status_count` in aggregated data?

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Thank you