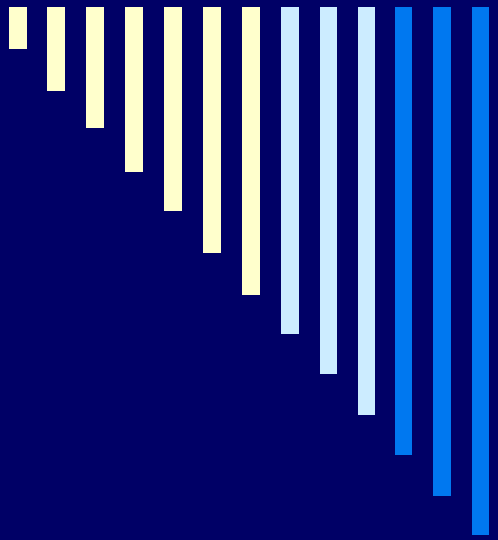


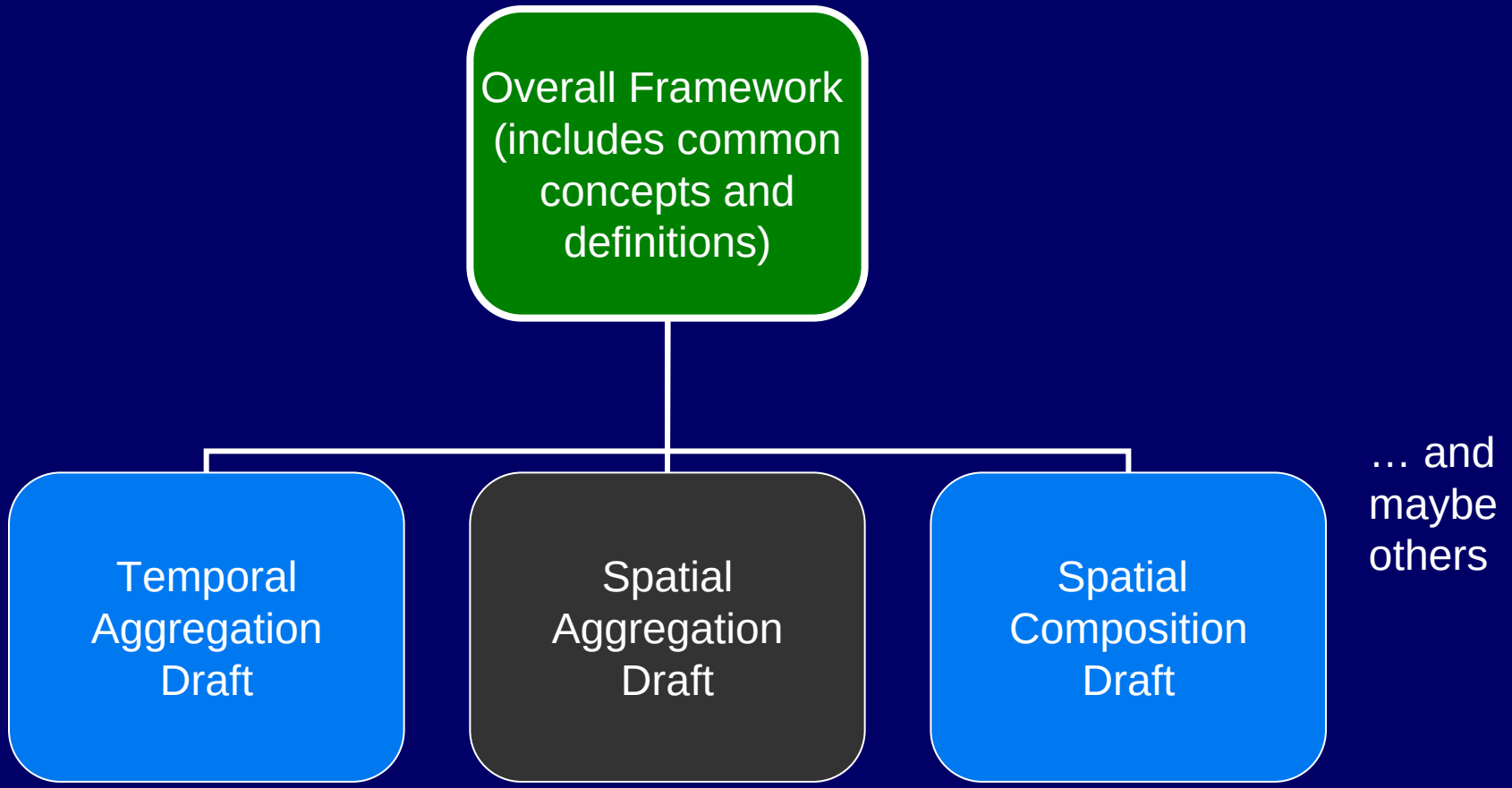
# Framework for Metric Composition

**Al Morton**

**Steven Van den Berghe**

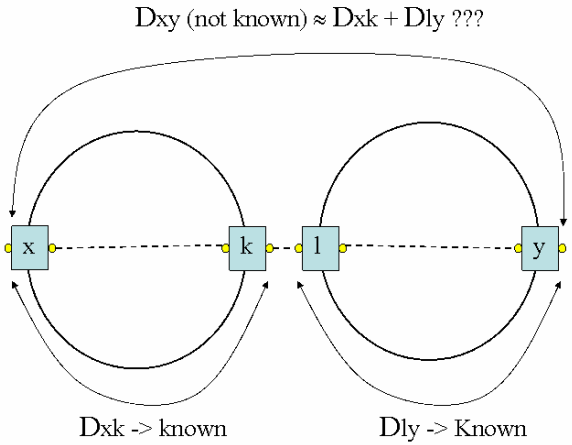
**July 10, 2006**

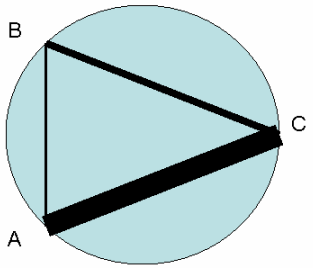
# draft-ietf-ippm-framework-compagg-00.txt



# Types of Composition

- Complete/Sub-Path (or Concatenation in Space)
- Aggregation in Time (12x5min stats ->1hr)
- Aggregat. in Space




| | Delay | Load |
|---|---|---|
| A-B | 24.5 ms | 1 Gbit/s |
| B-C | 7.8 ms | 3 Gbit/s |
| A-C | 4 ms | 9 Gbit/s |
| Domain | 1/13*24.5+3/13*7.8+9/13*4 = 6.4 ms | 13 Gbit/s |

# Status

- Framework and Spatial Composition first published as Chartered work at IETF-65
- Phil Chimento shared extensive comments on the Framework with the mailing list

# Changes in 01 (Phil's Comments)

- Motivation (sec 1.1) didn't do the job
  - Re-wrote the section, four specific motivations now
- "deterministic relationship" -> function
- Why did we rule out forecasting? (IDK)
- In spatial composition, non-overlapping measurement req. is too strict.
- Examples of higher order composition?
- IPDV and reordering are examples where one section of a network can "undo" what a previous one has done
  - "sequence-dependent" metrics are out of scope,

# Next Steps

- Expand coverage of Temporal/Spatial Aggregation classes
- Collect common terms
- Convince folks to Read and Comment
- Stabilize text by December 2006