

Source: https://www.swp-potsdam.de/content/verkehr/bilder\_6/liniennetz/touristischer\_

# **Temporal Graphs**

Daniel Cermann January 13, 2025



Hasso Plattner Institute

## Motivation

## **Definition**

### **Definition**

A **labeled graph** [1] is a graph G = (V, E) where:

- *V* is the set of vertices, each assigned a unique label.
- $E \subseteq \{(u, v) \mid u, v \in V\}$  is the set of edges, where edges may also have labels.

2

### Sources



Swarnendu Ghosh, Nibaran Das, Teresa Gonçalves, Paulo Quaresma, and Mahantapas Kundu.

The journey of graph kernels through two decades.

Computer Science Review, 27:88-111, 2018.