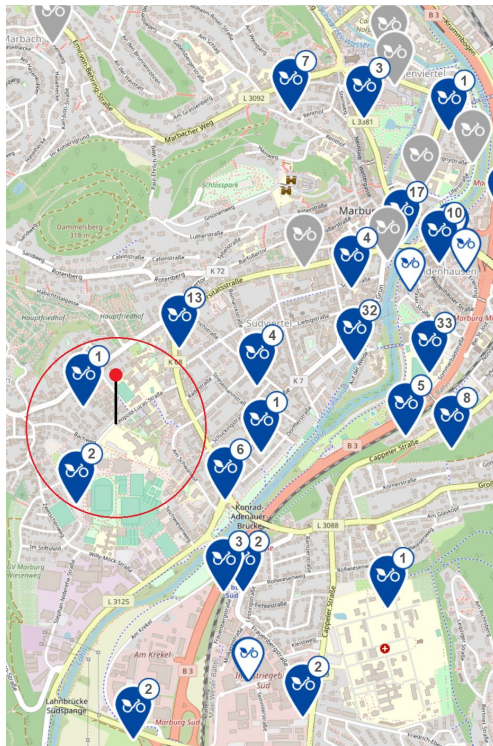


# bike-mar-gration

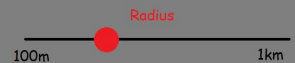
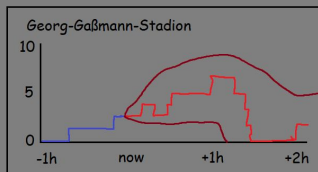
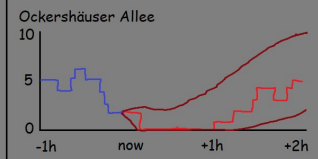
by Jakob Müller and Bela Schinke



# Reminder

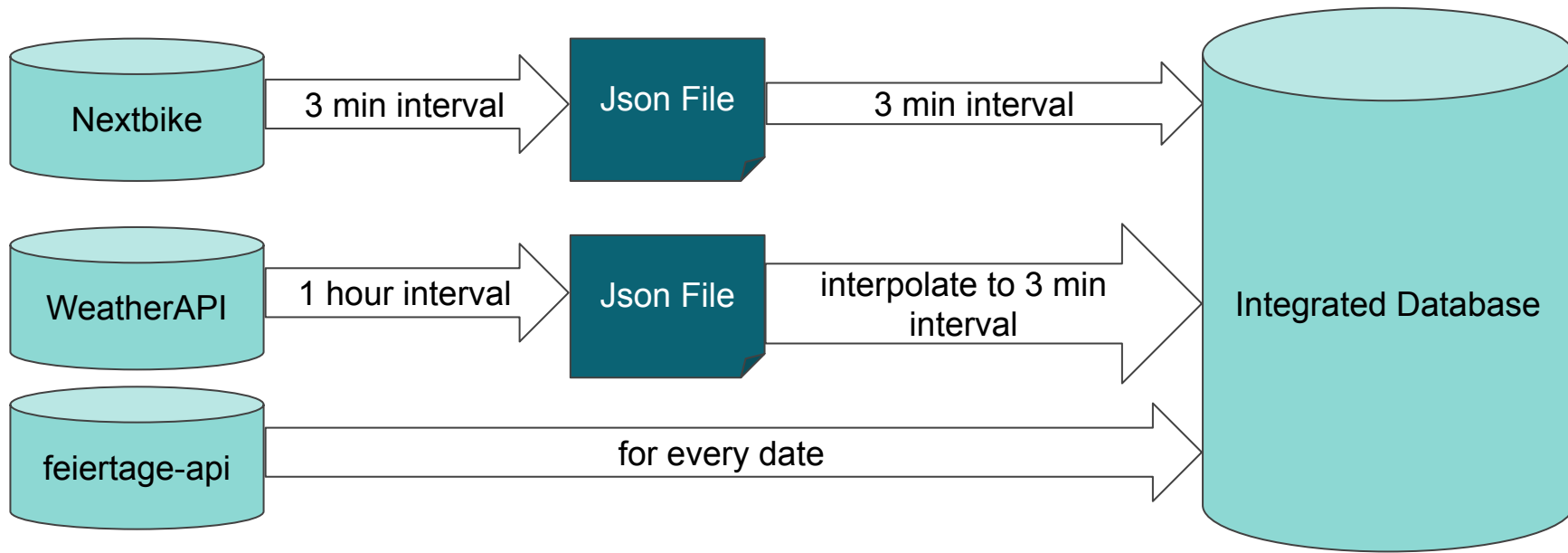


In nächster Zeit **ganz okay** viele  
Bikes in Deiner Nähe



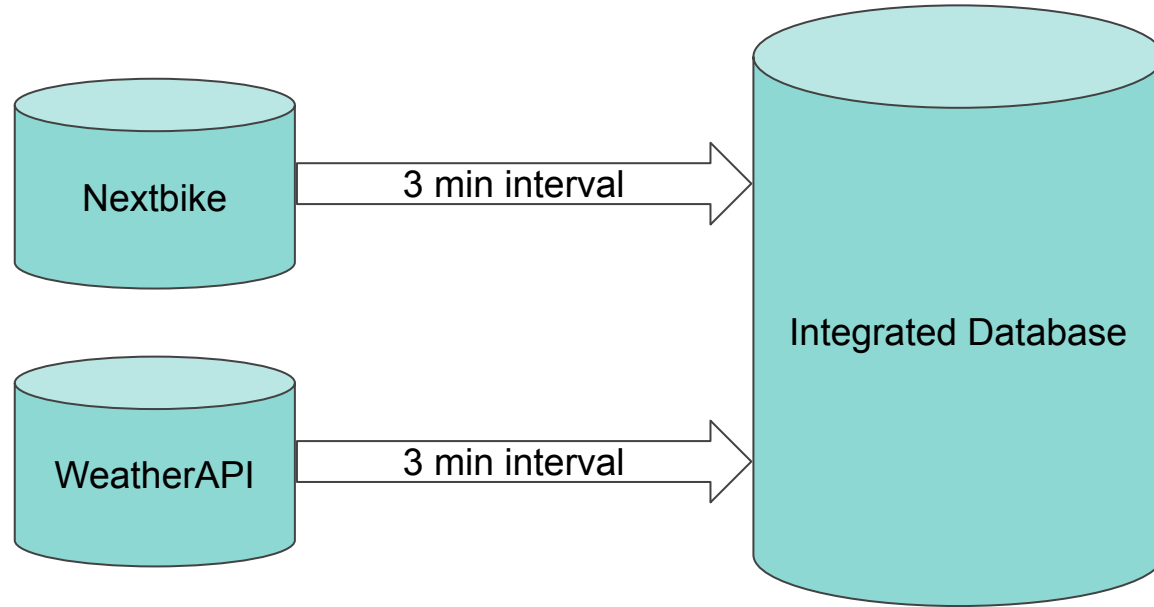


## Integrations Pipeline (for static data)





# Integrations Pipeline (for dynamic data)







# OLTP (online transactional processing)

Example 1: Number of Bikes at all Stations ~20ms

**SELECT**

name, latitude, longitude, **COALESCE**(numBikes, 0) as n

**FROM**

(**SELECT** \* **FROM** stations

**WHERE** firstSeen <= **\${timeId}**

**AND** lastSeen >= **\${timeId}**

) s

**LEFT OUTER JOIN**

(**SELECT**

stationId, **COUNT**(id) as numBikes

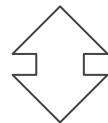
**FROM** bikes

**WHERE** timeId = **\${timeId}**

**GROUP BY** stationId) b

**ON** s.id = b.stationId;

bikes

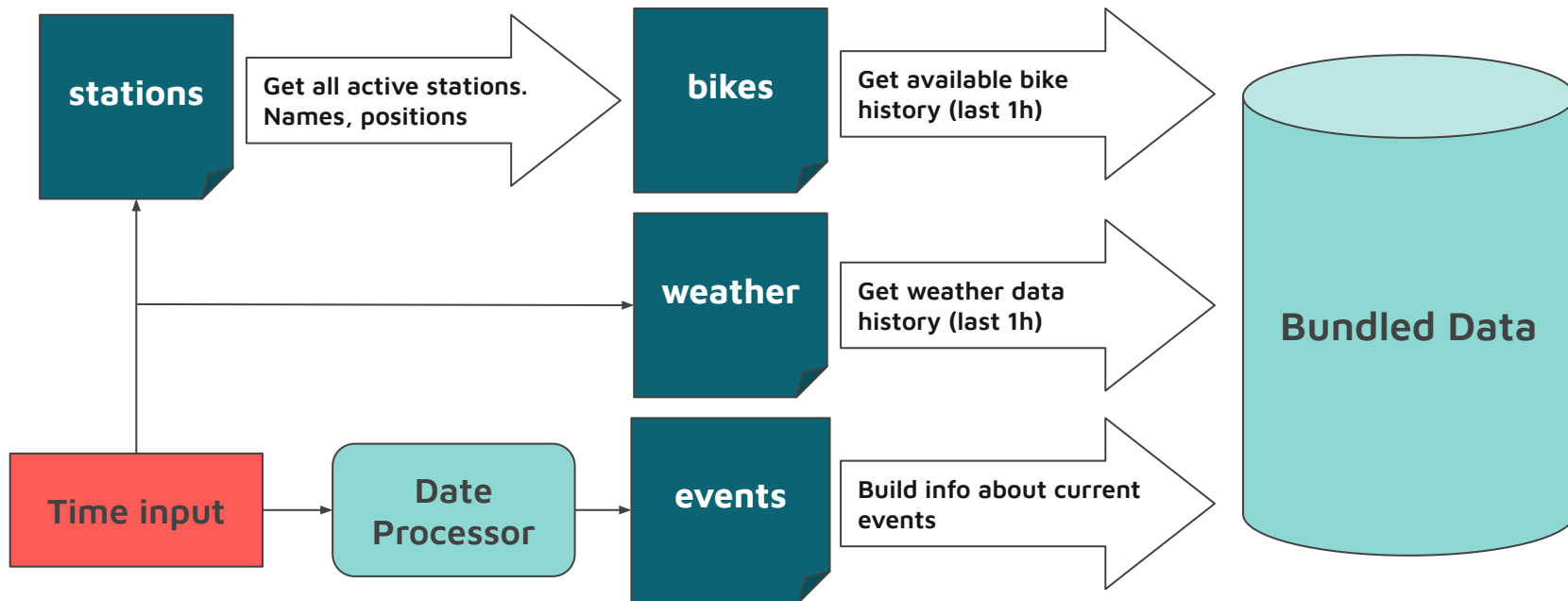


stations



# OLTP (online transactional processing)

Example 2: Create training/prediction instance ~25ms



# Product preview

Not all interactions  
are fully  
implemented

