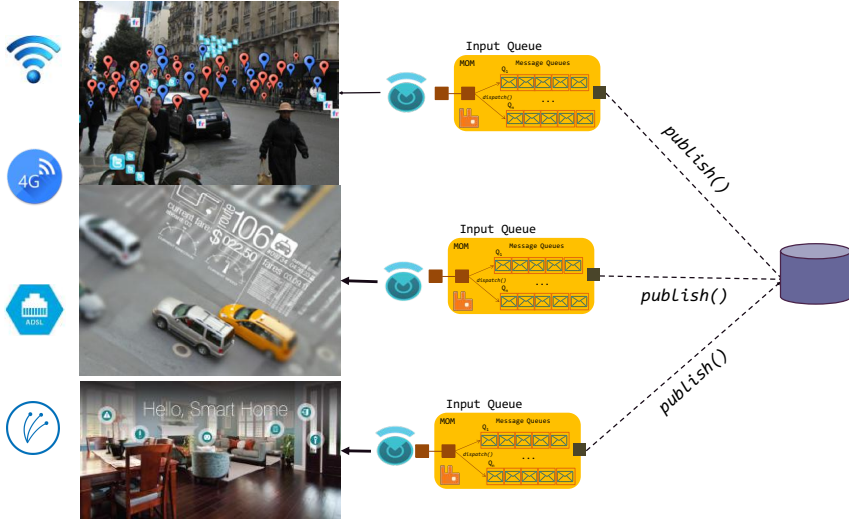


Analysing connectivity for connected Society

Data Acquisition

Continuous monitoring of connected society



Data Storage

Archival of data as files

Attribute	Description
Time	Number of seconds elapsed after EPOCH
Asnum	Internet provider' ID.
Client_country	Country where the test was conducted.
Connect_time	Round-Trip Time
Download_speed	Download speed (bytes/secs).
Lat	Latitude of the GPS location
Latency	Delay between the sent and reception
Lon	Longitude of the GPS location
Mlabservername	Name of the server
Platform	User operative system
Upload_speed	Upload speed (bytes/secs).



Project S2EUNET (EU-FP7 IRESSES)
LIG, LAFMIA, Politecnico di Torino
<http://s2eunet.org>



- Connection speed of one internet provider
Am I receiving the network speed I am paying for all the time?
- Internet availability with different Internet providers:
Which are the periods of the day in which I can upload/download files at the highest speed using different network providers?

Big Stream Processing System

Stream Operator (core concept)

Software component in charge of processing data

```

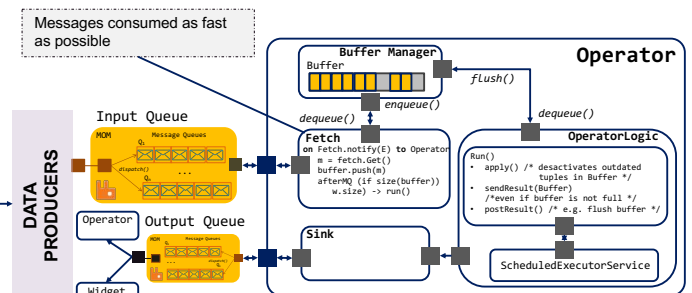
EVERY 2 minutes give me the MAX value of download_speed
STARTING 8 minutes ago
FROM Influx data Neubot
series DownloadSpeed
queue Neubot
    
```

Timestamp	Count	Value
2017-10-03 20:52:00.0	7	108437.0
2017-10-03 20:54:00.0	12	65178.0
2017-10-03 20:56:00.0	12	113911.0 << result
2017-10-03 20:58:00.0	12	107199.0
2017-10-03 21:00:00.0	4	17327.0

INITIAL max VALUE = 113911.0

Operator Architecture

Queue, Fetch, Buffer, Sink



```

def queryToHistoric(function: String, value: String,
                    startTimeInMillis: Long, endTimeInMillis: Long,
                    groupByTimeNumber: Int, groupByTimeUnit: String)
    : List[List[Object]]
    
```

