### sector life

February 28, 2021

#### 1 Sector Life Metrics Dashboard

#### 1.1 Setting-up

```
[1]: %load_ext autotime
%load_ext autoreload
%autoreload 2

time: 34.4 ms (started: 2021-02-17 17:07:16 -03:00)

[2]: # External depences
import pandas as pd
import numpy as np
import plotly.express as px
```

```
import pandas as pd
import numpy as np
import plotly.express as px

# Move path to parent folder
import sys
sys.path.insert(1, '../')

# Internal dependences
from filecoin_metrics.connection import get_connection, get_connection_string
from filecoin_metrics.metrics import *
```

time: 2.62 s (started: 2021-02-17 17:07:18 -03:00)

```
[3]: conn_string = get_connection_string('../config/sentinel-conn-string.txt')
connection = get_connection(conn_string)
```

time: 23.4 s (started: 2021-02-17 17:07:20 -03:00)

#### 1.2 Visualizations

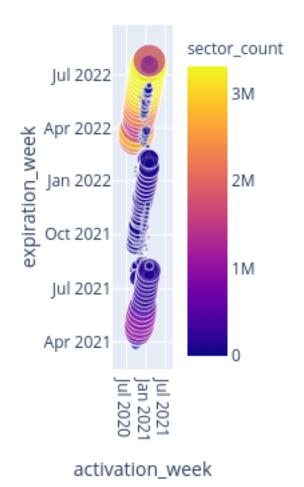
#### 1.2.1 Expiration vs Activation Week

```
[4]: df = sector_activation_and_expiration_by_week(connection)
```

time: 4min 56s (started: 2021-02-17 17:07:44 -03:00)

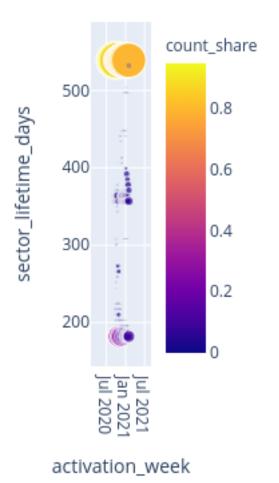
time: 25.5 ms (started: 2021-02-17 17:15:23 -03:00)

## Sector ount / Expiration \



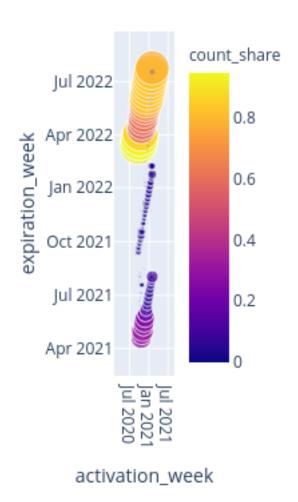
time: 328 ms (started: 2021-02-17 17:15:24 -03:00)

## Activated Sectors Lifetim



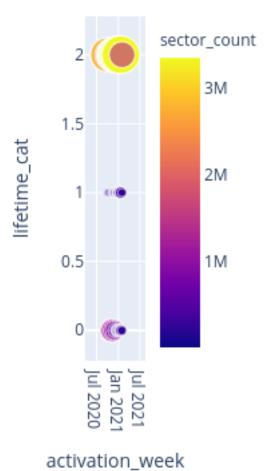
```
time: 278 ms (started: 2021-02-17 17:23:47 -03:00)
```

# Share of Expiring Sectors



time: 403 ms (started: 2021-02-17 17:23:50 -03:00)

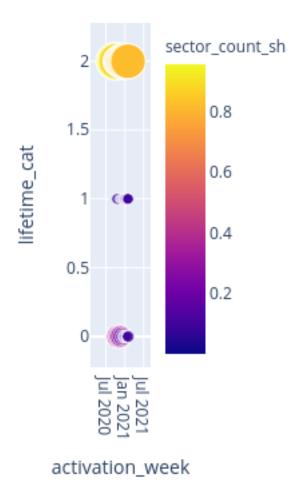
## Count of Sectors Lifetime



.........

```
time: 300 ms (started: 2021-02-17 17:23:50 -03:00)
```

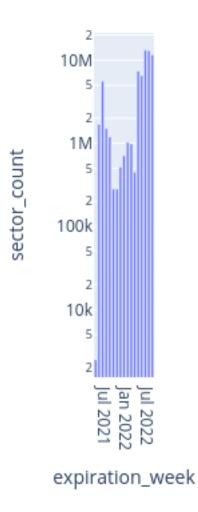
### Share of Sectors Lifetime



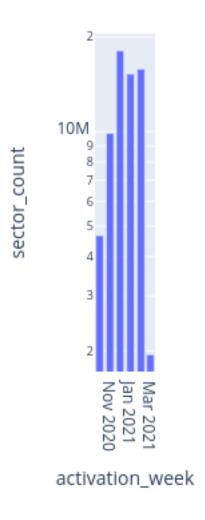
time: 332 ms (started: 2021-02-17 17:23:51 -03:00)

### 1.3 Upcoming sector expiration, monthly, network-wide

# Expiring Sectors per Mor



# Activated Sectors per Mc



time: 116 ms (started: 2021-02-17 17:31:20 -03:00)

[]: