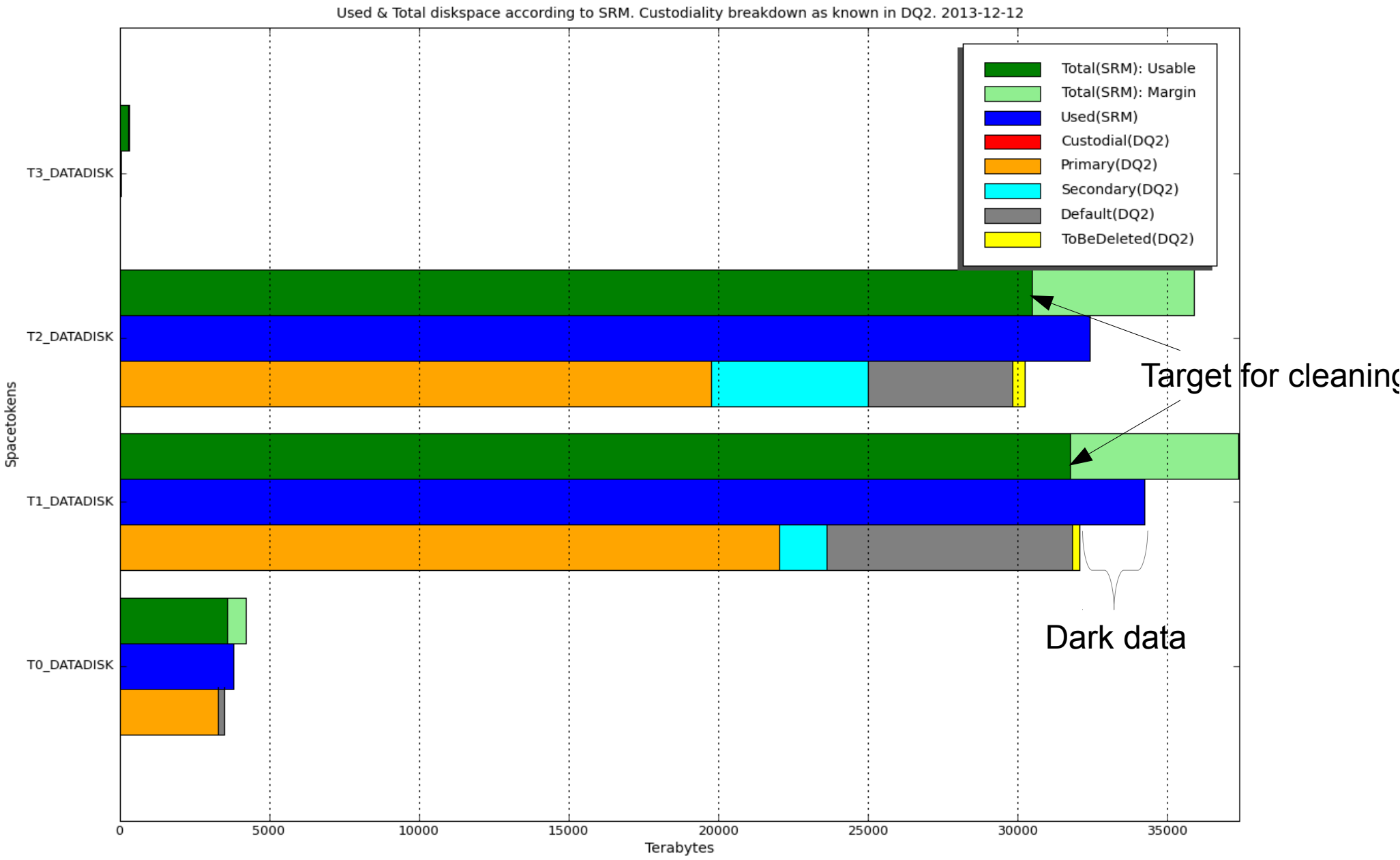
# Disk space over Xmas break

Situation and prediction
for the next 4 weeks

# Situation + Planned activities

- Free space in DATADISKs:
  - T1: 3.5 PB (1.3 PB secondary)
  - T2: 3.7 PB (5.4 PB secondary)
- Plans:
  - MC production: 250M events (Jose's slides 17th Dec) (~100TB)
    - mc11d: output ~70 TB (Wolfgang's slides 3th Dec)
  - Reprocessing step B: output ~50 TB (Till 3th Dec)
  - FTK: <40TB (Guido Volpi)
  - NTUP_COMMON v2 (Nurcan's slides 3th Dec)
    - less than version 1 (5.2 PB in total, 1.7 PB for T1, 3.5 PB for T2)

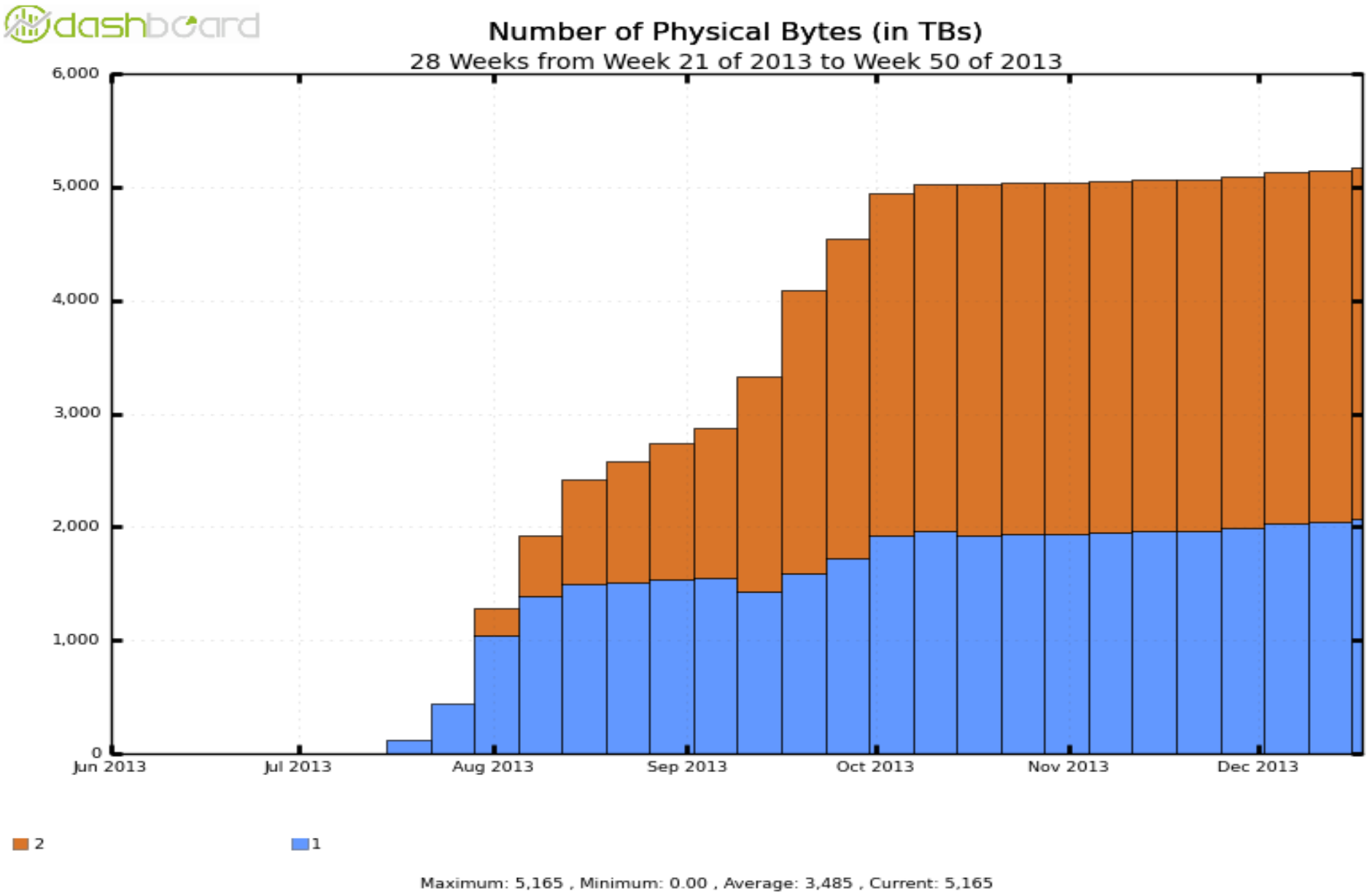
# Current situation



# Primaries

- Unused datasets (for 6 months on T1, 12 months on T2)
  - Datasets untouched for 6 months and with TAPE copies are periodically removed
  - Datasets without TAPE copies
    - 2.5PB on T1, 1.8PB on T2
      - without ESD+RDO it is only 18TB on T2s
      - On T1s it is 560TB ESDs, 350TB HITS, 90TB RDO, 150TB DESD_, 111TB EVNT, 140TB AOD, 225TB NTUP_ (no NTUP_COMMON)
    - ESDs and RDOs discussed with Wolfgang and Alexei
      - Marked for deletion from DATADISK in prodsys for TID<400k
        - TIDs>400k asked only recently
      - Other datatypes are safe to delete
        - Groups were warned
        - Prodsys would not be affected

# NTUP_COMMON on disks




- The policy is to have 1 T1 and 2 T2 replicas
- These are not cleaned with the “6 months untouched” policy

# NTUP_COMMON

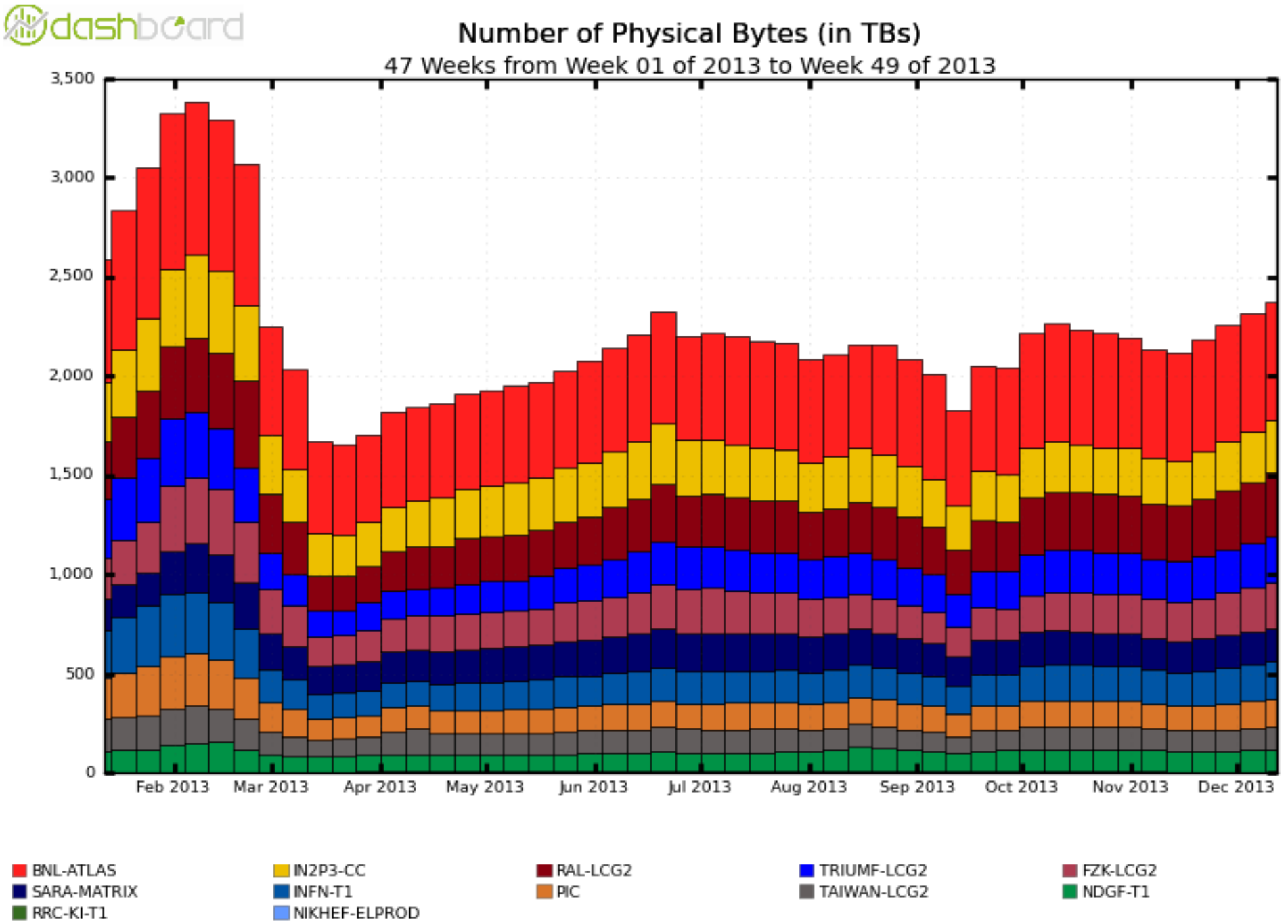
- NTUP_COMMON is migrated to TAPE
  - except the ones produced during last 30 days
    - there are some new NTUP_COMMONs – is this version 1 or tests for v2?
- Before producing NTUP_COMMON v2 we need to make some space
  - secondarize one T2 replica
  - (+ secondarize T1 replica)
    - alt: secondarize never used T1 replica
- When the v2 is produced
  - do we need v1 on DISKs?

# Conclusion

- Currently planned outputs fit in the free space
- We should not be in space crisis during next 4 weeks
- If possible: Production of NTUP_COMMON v2 should go in parallel with relaxing replication policies of NTUP_COMMON v1

# Backup slides

# Defaults history



# Defaults

- The old ones are investigated by DDM ops
  - Failed DaTRI transfers for group production
    - If fixed manually by group and transferred -> secondarize
    - If not fixed -> transfer to group space & secondarize on DATADISK
  - Since the beginning of November DaTRI sends info about expired transfers to atlas-dq2-ops
    - I will check if groups do something about the expired transfers
    - The plan is to tell DaTRI to secondarize DATADISK replica when the transfer fails + pin for 2 weeks (so it is not cleaned right away)