# • Retrospective Analysis: Numerical coefficients

First off the bat: the clear problem here is how to enable eyewear to all the caregivers, if we cannot have a solution which would enable all the caregivers instantly to deploy the mentioned service we have failed this challenge and product management from the beginning.
It is impossible for devices which need a long pipeline of production (testing and custom manufactory) and cost of more than **400 USD**.

Provided, as spoken with Mr. Van Boxtel, there are around 1300 nurses currently that we would need to enable with smartwear, a production of at least 60% (>=750) of these 'devices'/possible solution would need to be bought, which would mean around max 312000 USD budget, which would seem indeed reasonable.
So now that we have physical constraints we can start excluding ideas which would certainly fail from the very beginning.
PM Constraints: **750 devices** in no longer than **90 days** and **312'000 USD** budget.

750
UNIT(s)

90
DD

312k
USD
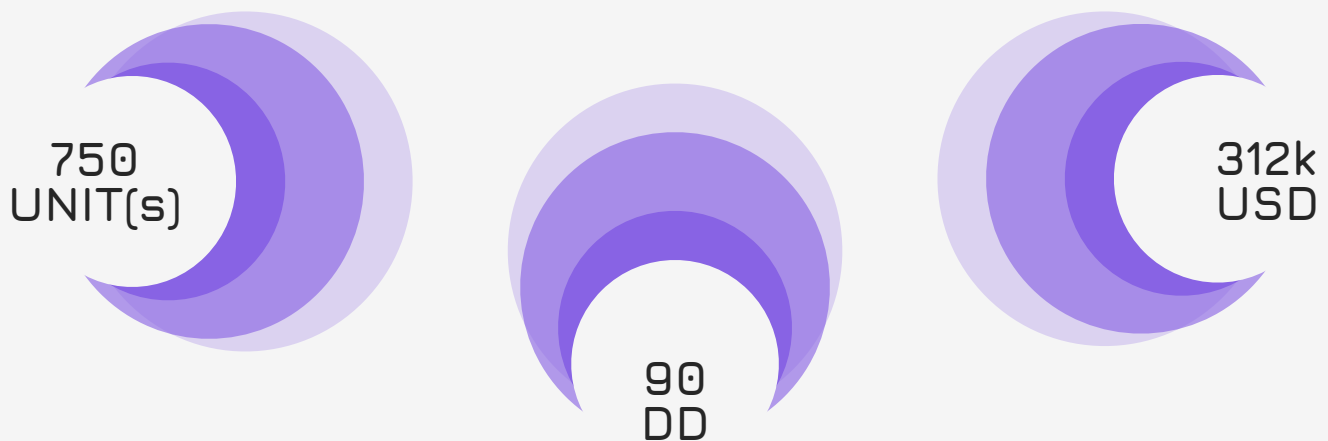
• Possible solutions

This would allow for enough room for rotation amongst the nurses/caregivers and enough budget and a reasonable but need timeline of deployment.
We would also need a PDD approach, why this approach (Production-driven development) you may ask?
Well if we were to choose a TDD approach we may discover losses on the long run or problems down the road which may be irreversible (a bit like the current challenge Thebe is facing).
The solutions that could be put on paper would be many, we may think of headcams (like dash cams, a bit like mohoc), tripoded mounted systems, drone remote control or just plain iOS cams.
We will have pitfalls with battery for externals systems, such as head cams, drone controls or tripoded systems.

We may investigate esoteric approaches, such as case specific mounted surveillance hardware (ASIC sensors for small wearables), but these will come with even further pitfalls (chromatic aberrations amongst other as seen in the smartglasses)
The rise of dash cams is continuously more popular in surgery/cosmeticals and appears to be the current go-to strategy for most cases (1 - Head Mounted Camera Doc, 2 - First person Doc, 3 - Surgeon Mounted Cams Market Cap, 4 - Telesurgery).

Key takeaway:
PDD solution and **iOS** enabled