

Notable Technical Developments from the SPIE

IAU54

June 28th, 09:30 - 10:15

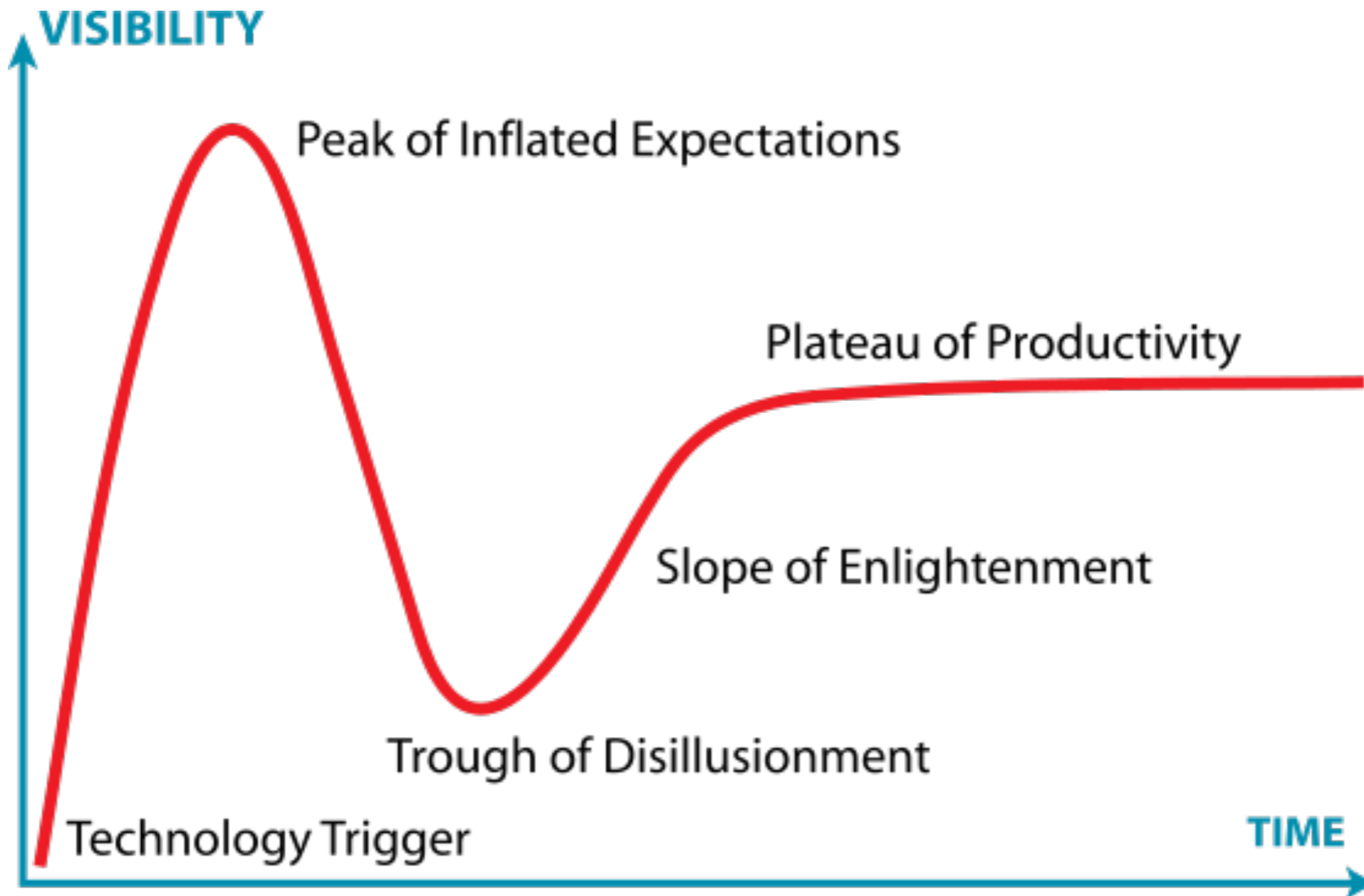
What did I notice?

- **disclaimer:** I mostly (only) attended the interferometric session
- Facilities (CHARA, MROI, NPOI, LBTI or VLTI) concentrate on “*making things work*”

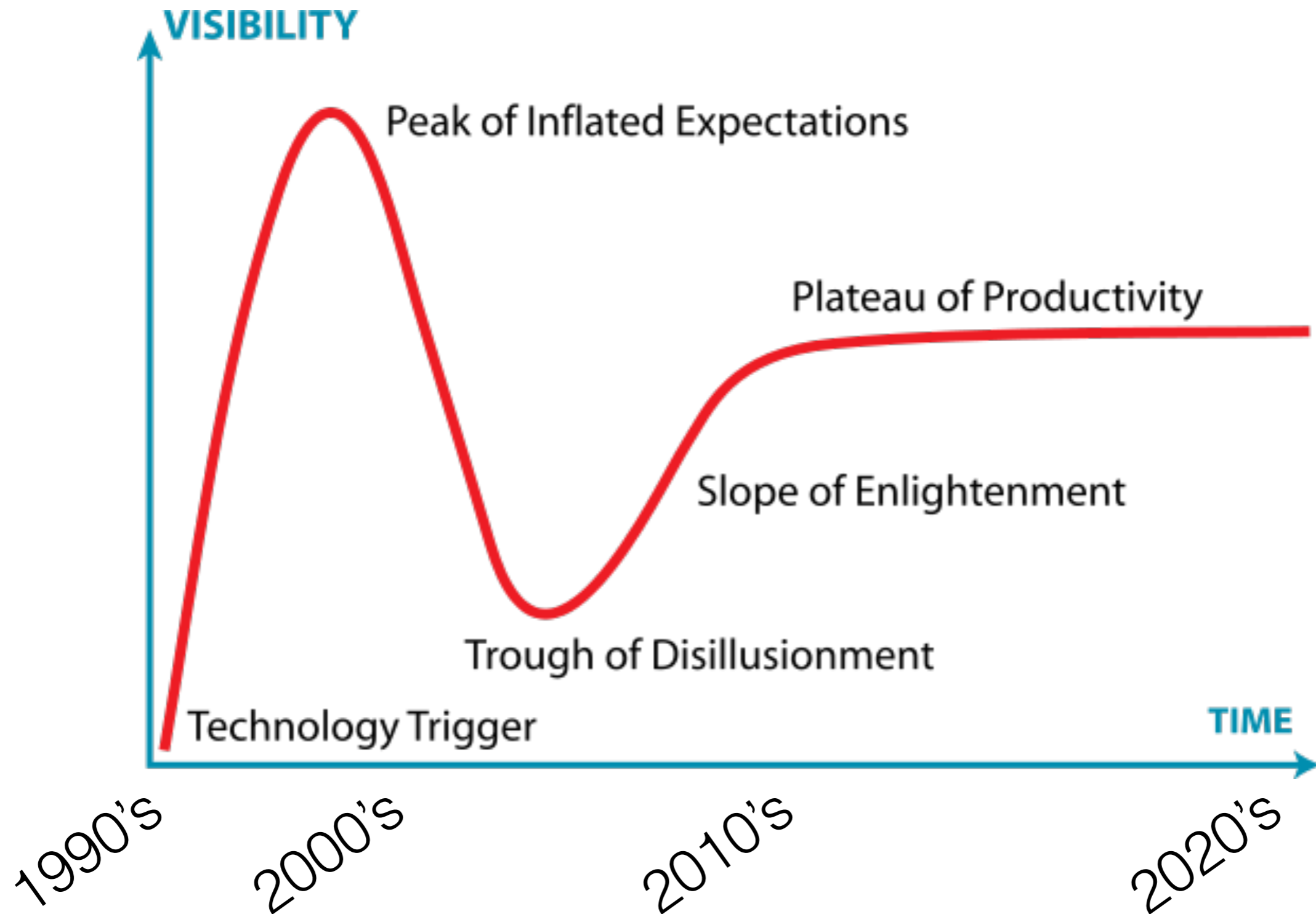
What did I notice?

- short baseline interferometry seem to be the most successful one: masking, LBTI, nulling
- dawn of IR-APD detectors
- light transport using fibers
- return of heterodyne (?)
- polarization control rising as an issue
- maturity of integrated optics
- AO is coming (slowly) to CHARA and VLT
- image reconstruction algorithms
- astrometry is difficult!

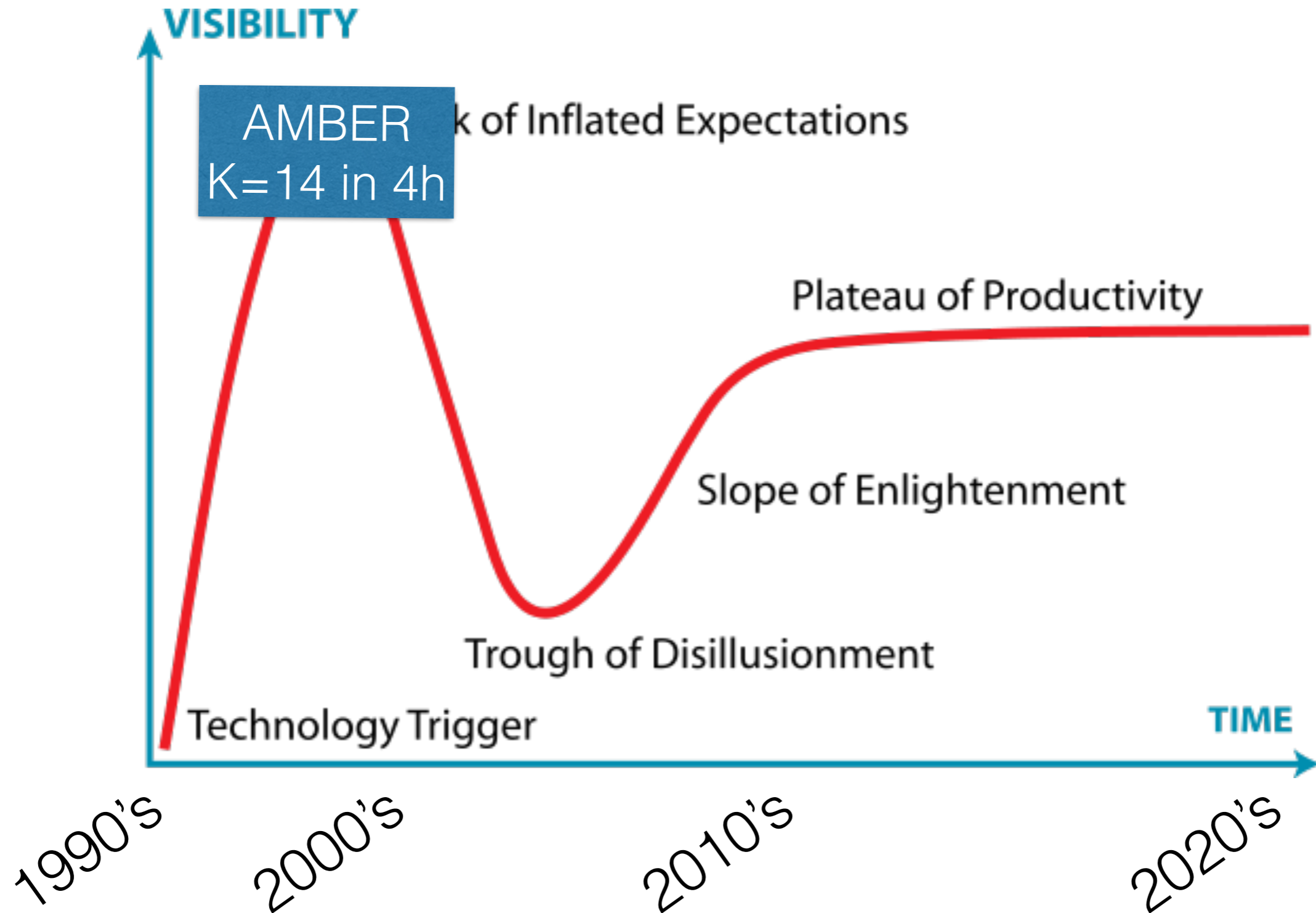
Hype cycle



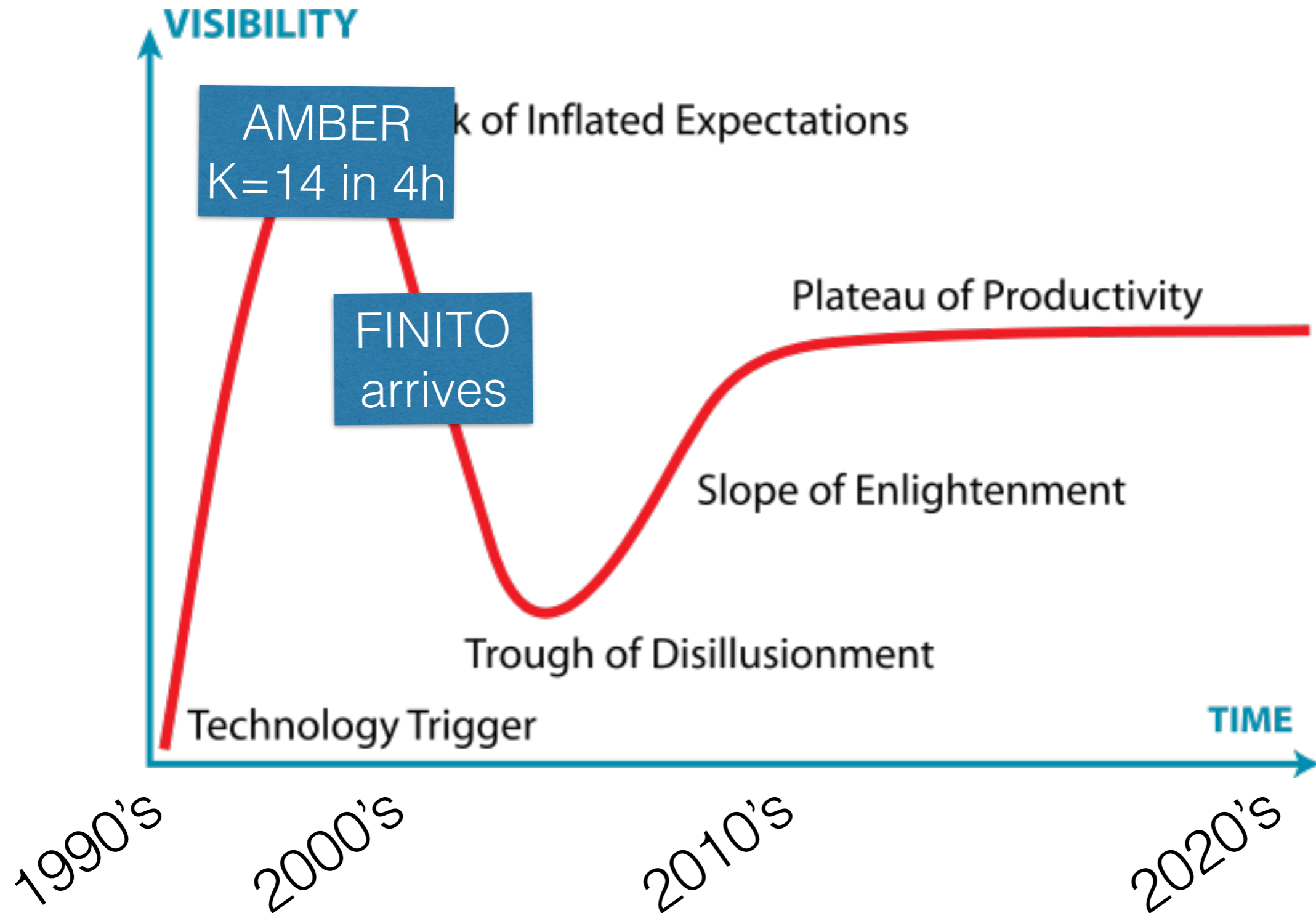
Fringe Tracking



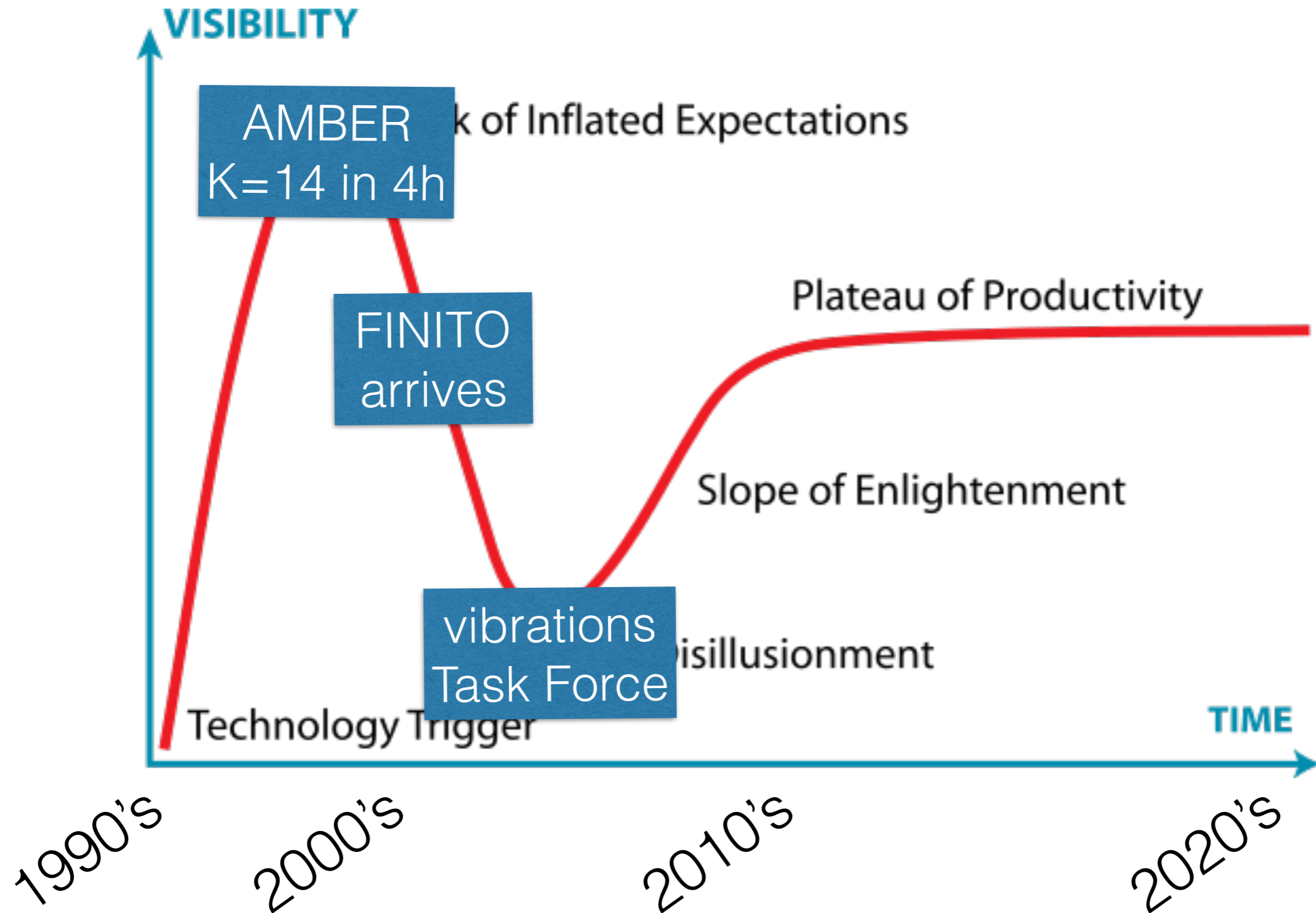
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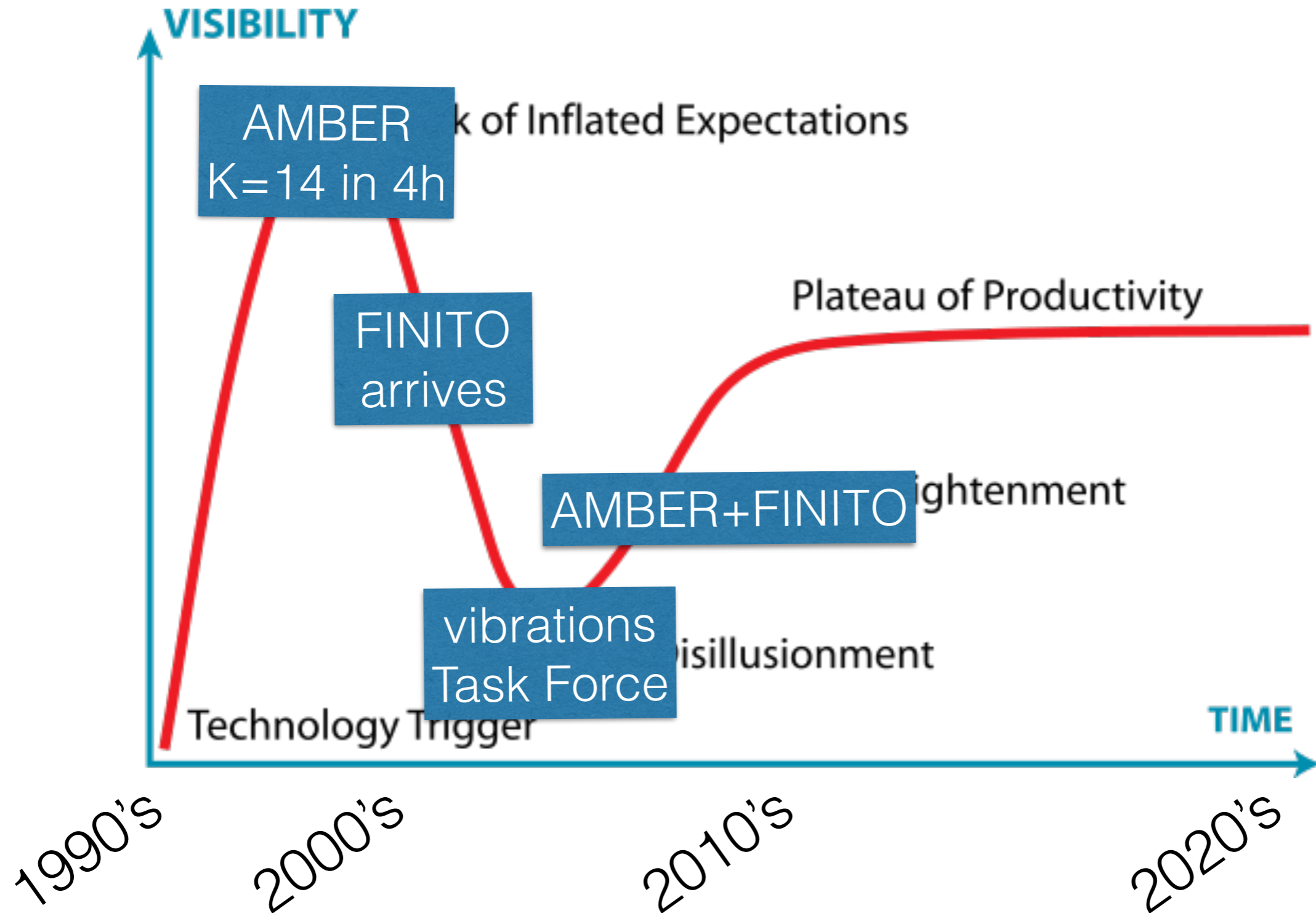
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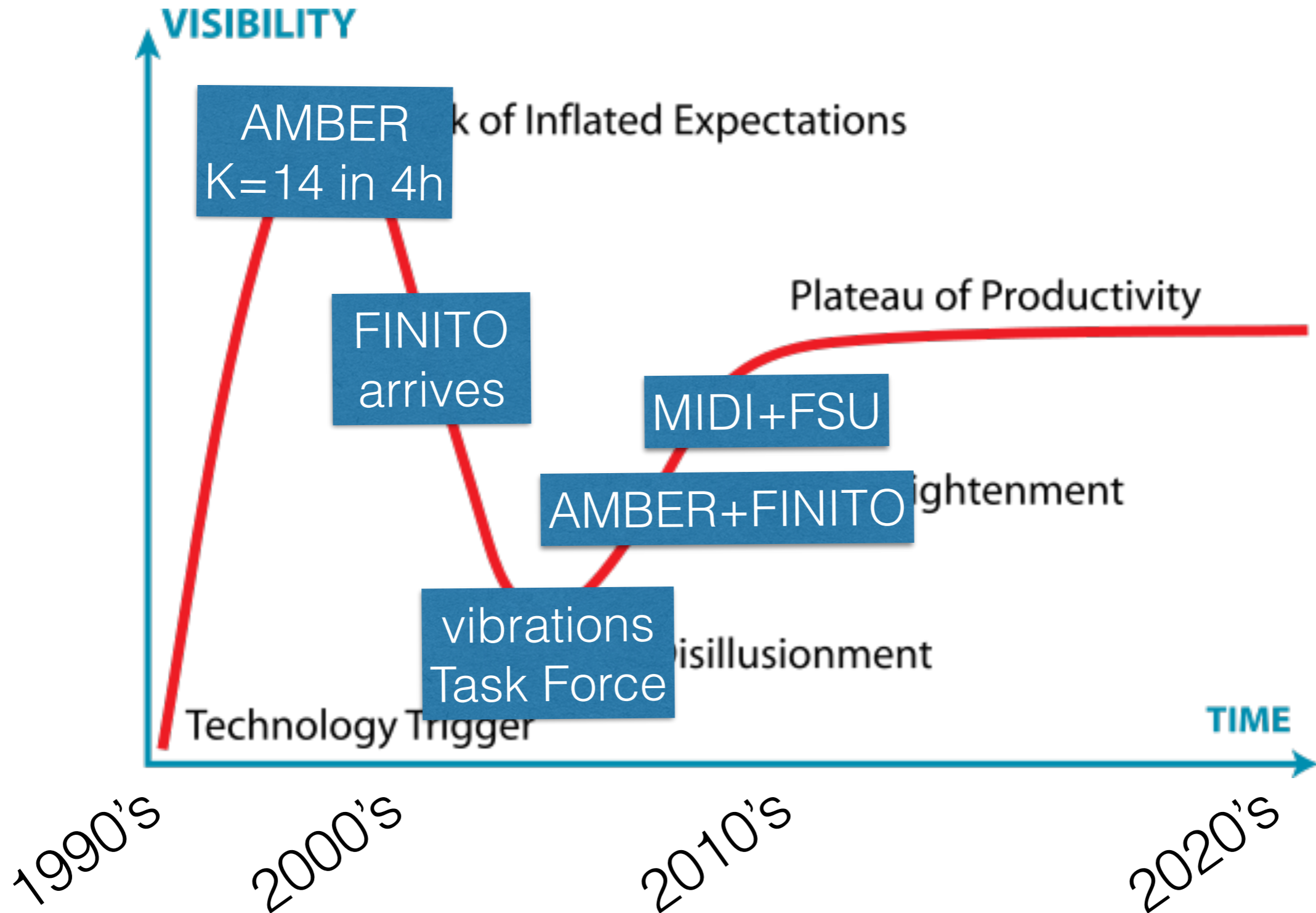
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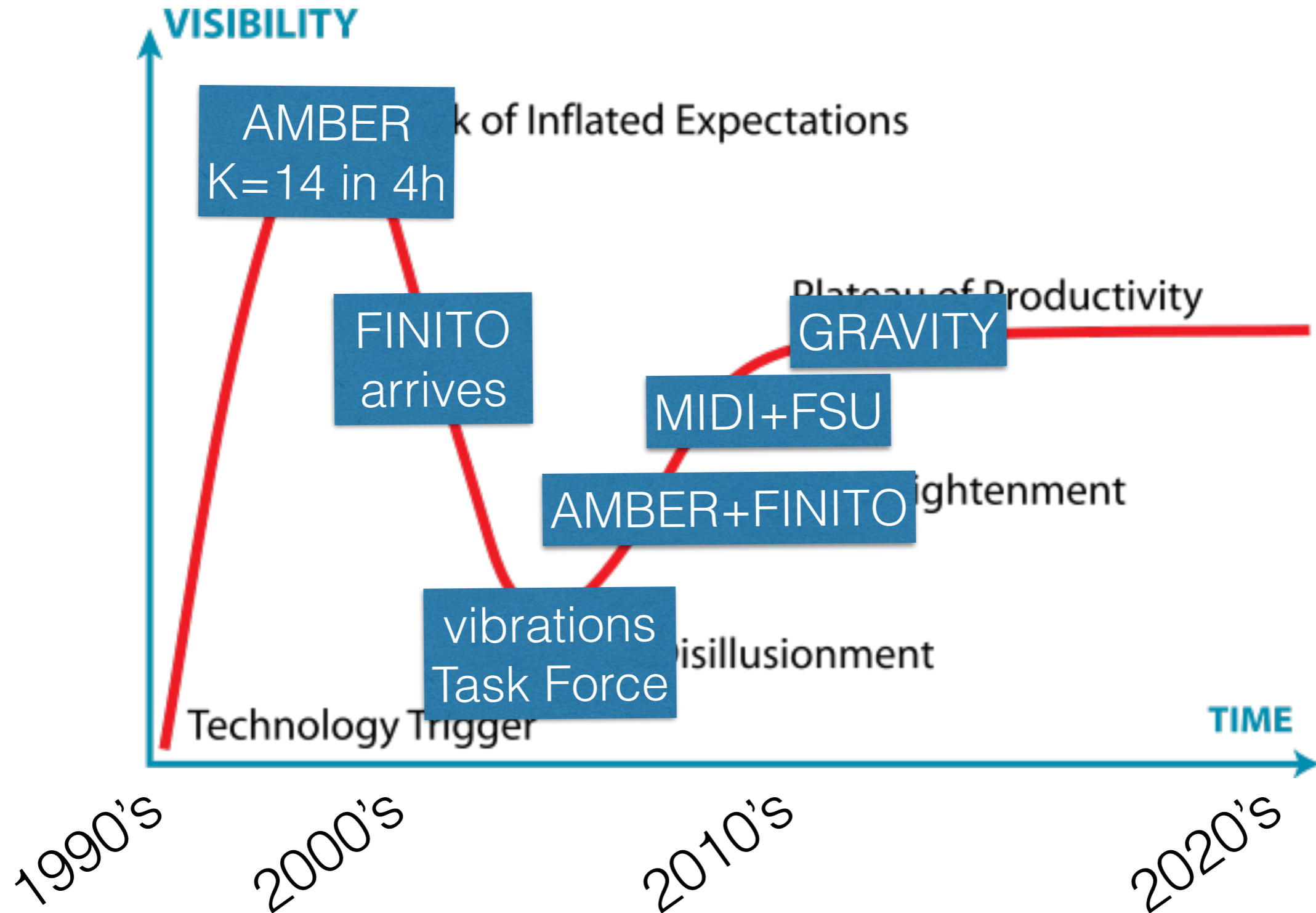
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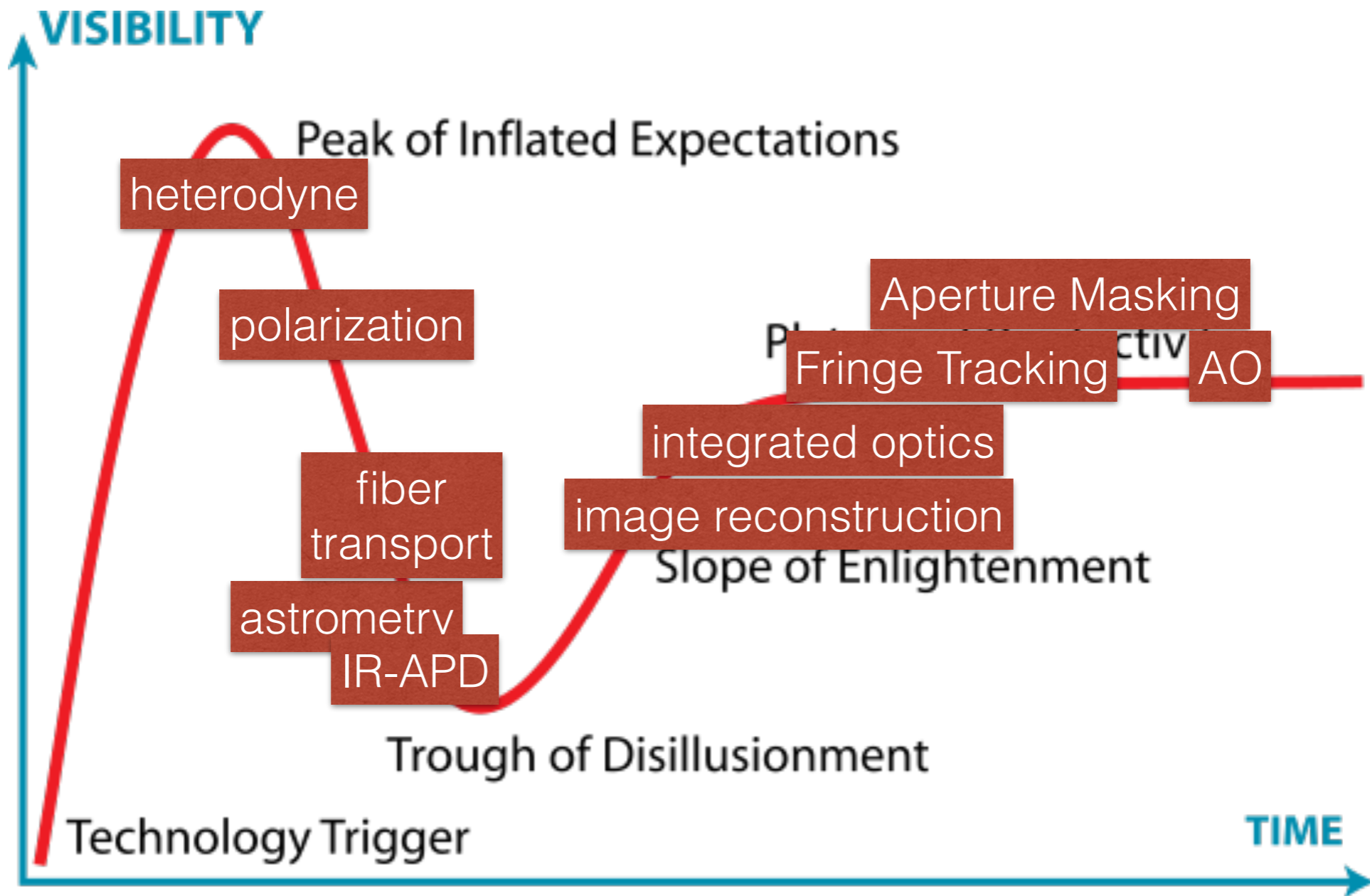
Fringe Tracking



Fringe Tracking



Current state of the art



Discussion

- any additional technical development?
- what is at stake (short/long term)?
 - current facilities
 - upcoming instrumentation
 - evolutions/upcoming facilities