

The PHY Layer is Dead (Is it?)

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“It depends on what the meaning of the word ‘dead’ is”

‘dead’ =
‘finished’

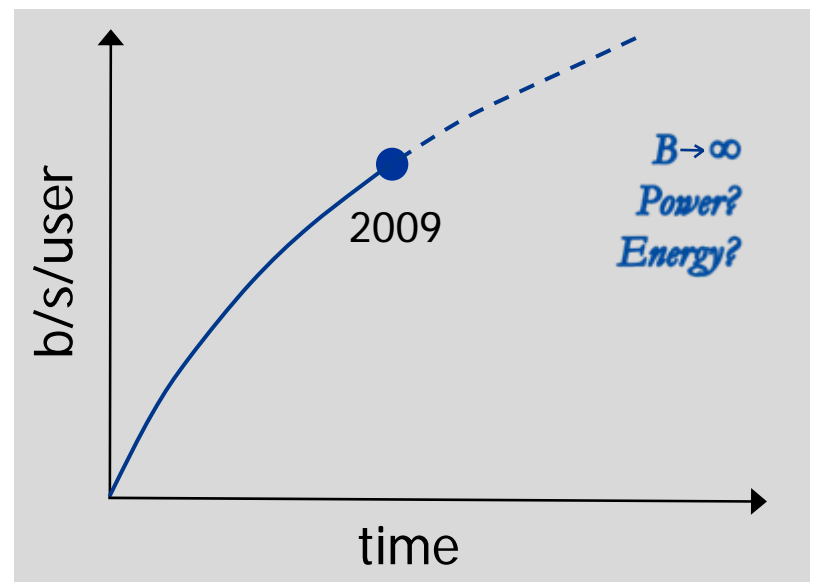
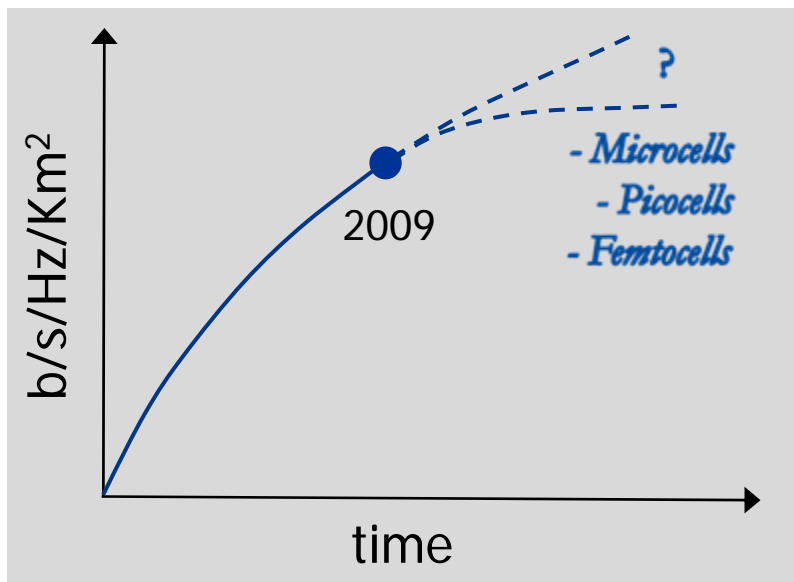
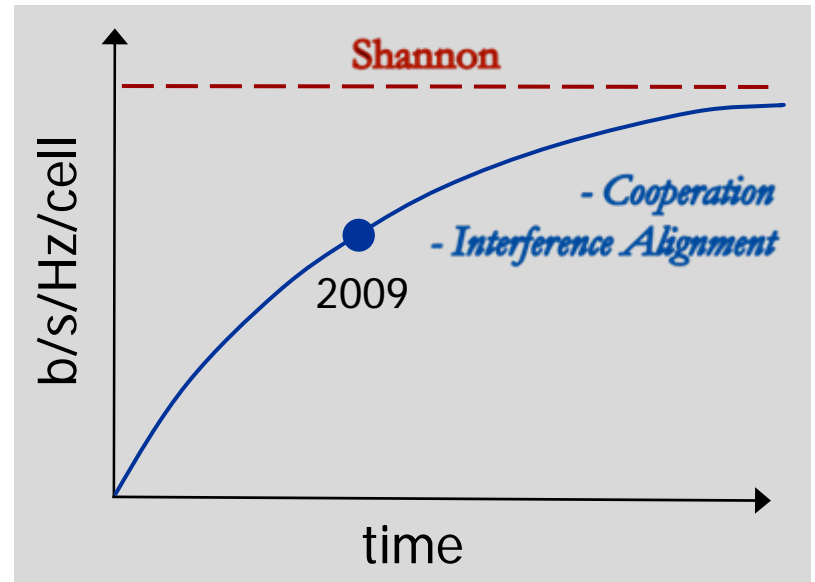
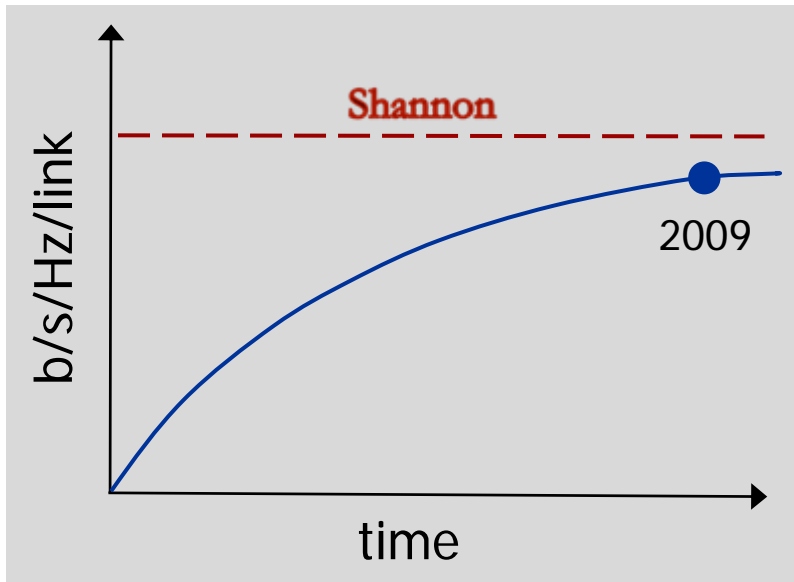
.....’
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‘a

commodity’

WIKIPEDIA:

The PHY layer defines the means of transmitting raw bits (rather than logical data packets) over physical links connecting network nodes.



Qualcomm v. Nokia Qualcomm v. Broadcom



“Too many equations had been generated with too few consequences... Coding theorist professors had begotten more coding theory Ph.D. 's in their own image... no one else cared; it was time to see this perversion for what it was. Give up this fantasy and take up a useful occupation... Coding is dead.”

Robert McEliece, 1971

- 1984: "The theory of information and coding", by R. McEliece, is published
- 1990s: Major renaissance of coding theory
 - ✓ Turbo codes
 - ✓ LDPC
 - ✓ Fountain Codes
 - ✓ ...

