My post from 1.5 years ago:https://vitalik.ca/general/2017/07/27/metcalfe.html

General conclusion: if network effects are O(N^2)

then many suboptimal forks exist and so forking should be to some extent actively discouraged; if network effects are O(N * log(N))

then externalities from moving from one fork to another fork are either zero or positive for moving to smaller forks and negative for moving to bigger forks, meaning that groups attempting to fork should either be left alone, or forking should be actively encouraged.

See also more recent work on a similar topic by Stephanie Hurder:

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3192208