

# **SOFTWARE ENGINEERING FOR THE NEXT INTERNET**

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# WHAT IS "THE NEXT INTERNET"?

IT IS A SWING OF THE PENDULUM . . .

- . . . from "research is useless unless it can be adopted, incrementally , within the existing Internet"
- . . . to "the current Internet architecture makes solving some problems impossible, so we must have a clean slate"

IT IS THE SOURCE OF A LOT OF RESEARCH FUNDING

for example:

- US National Science Foundation umbrella programs: GENI and FIND (first wave), NetSci (second wave)
- European Community umbrella programs: FEDERICA, 4W ard, EIFFEL

IT IS A WINDOW OF OPPORTUNITY . . .

. . . that we should use to make progress on the other problemÑthe one that is not on the agenda of the networking community:

it is much too difficult to build, deploy , and maintain networked applications

Even recognized problems related to applications (security , mobility) will be attacked from one side only .