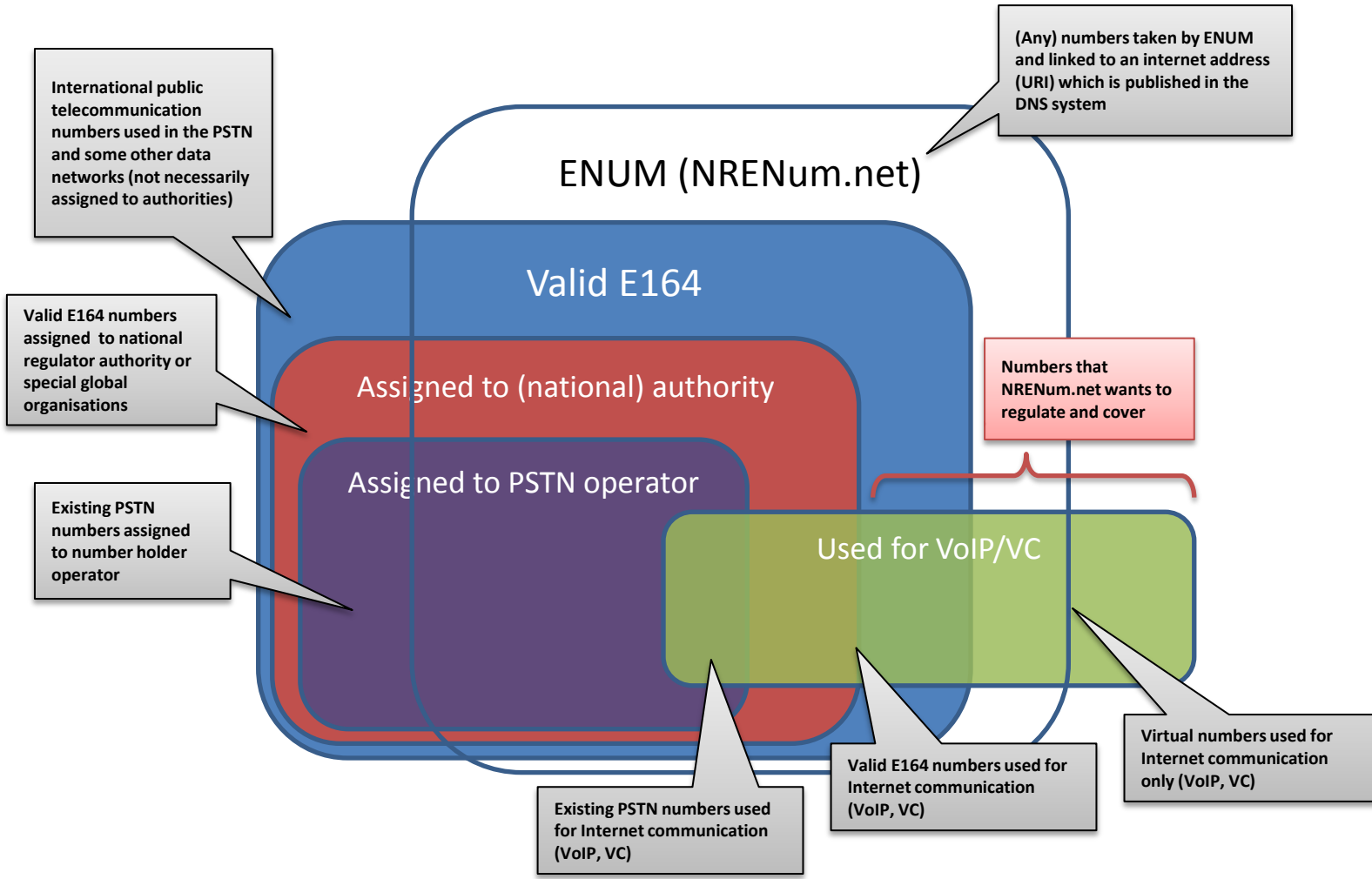


# Virtual Numbers in NRENum.net

Survey results v.2

# 1. Handling of virtual numbers

## Numbering Plan



# 1. Handling of virtual numbers (2013)

Do you or your users already use virtual numbers in the communication infrastructure (Videoconferencing, VoIP, other)?



**END**      Where do you think virtual numbers should be populated under?



What do you think the domain of the separate virtual NRENum tree should be?

To access the virtual NRENum tree, should users dial a specific selector?

**END**

Assuming that the NRENum.net tree will be used to populate virtual numbers, where do you think virtual numbers should be delegated?

Outside the national dialling plans; a globally unique, worldwide virtual "country code" prefix should be selected 10.52%

How do you think a worldwide virtual country code prefix should be selected?

How do you think the virtual number delegation under the worldwide prefix should be managed?

**END**

Inside each national dialling plan; a non-clashing virtual "area code" prefixes should be selected 84.21%

Please, express your view on the possibility of creating such a prefix (i.e. sandbox) within your national dialling plan.

Please, express your view on the possibility of creating such a long virtual numbers within your national dialling plan.

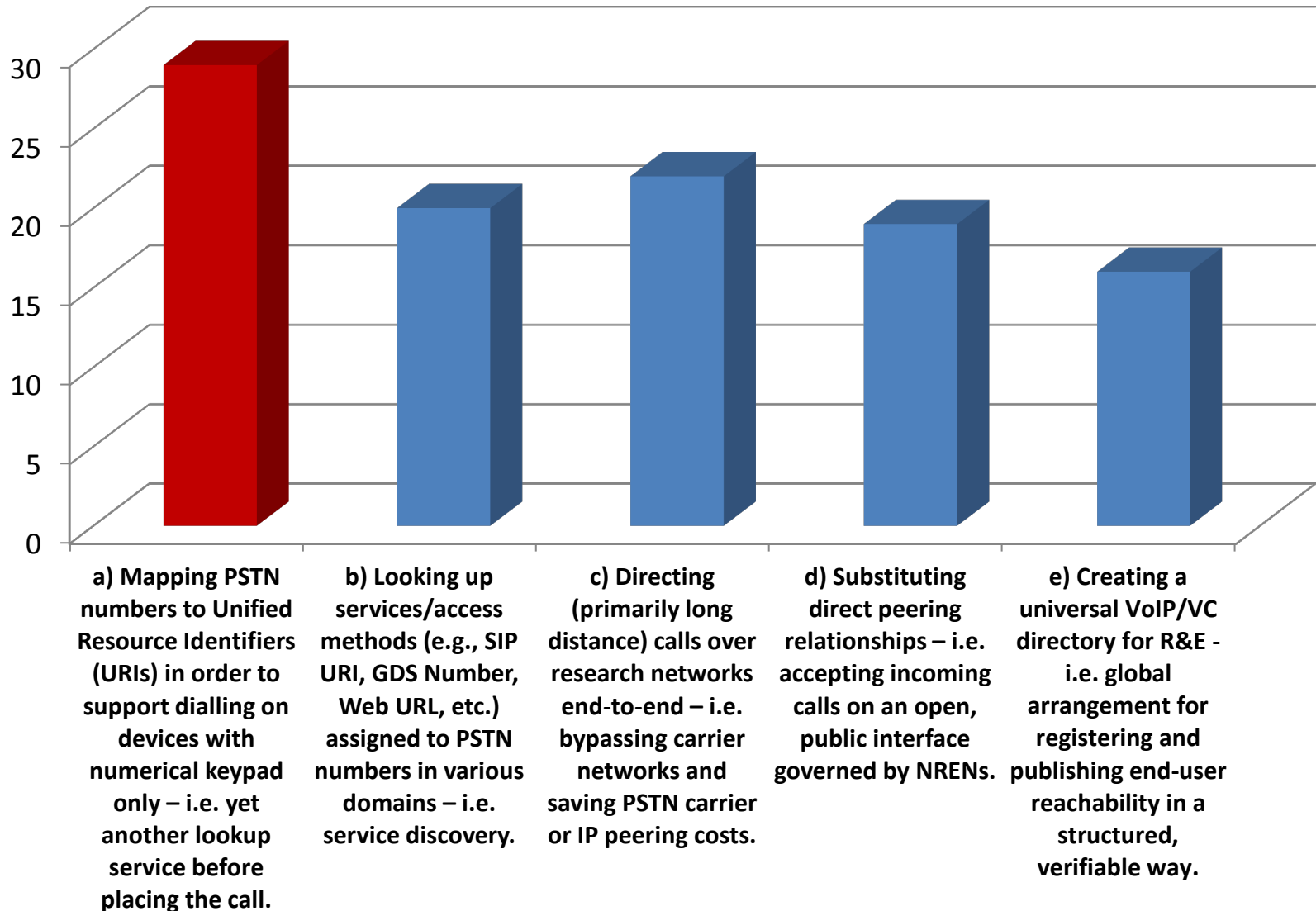
**END**

50%

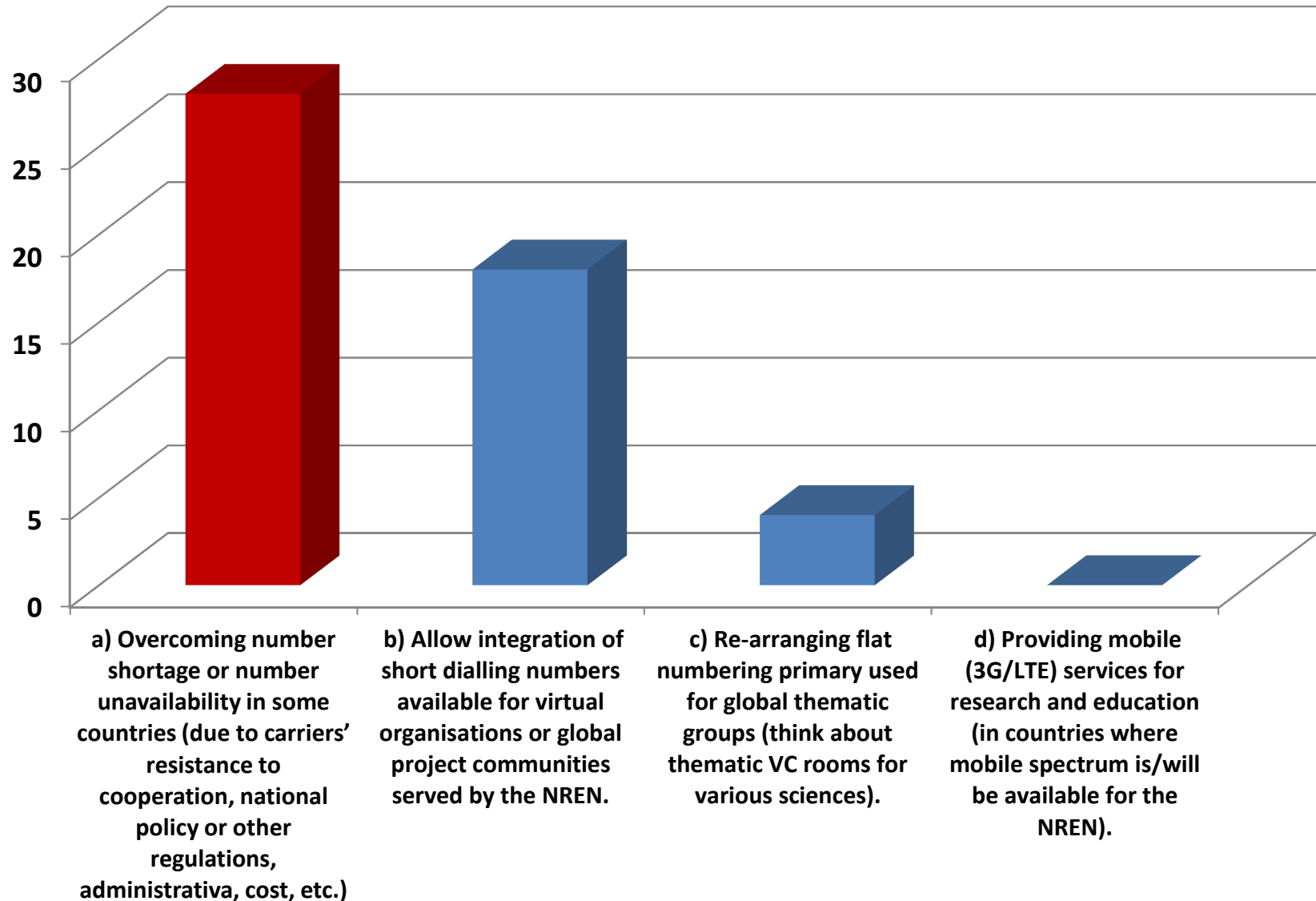
# Expert Group survey (2014)

- Rui Ribeiro, FCCN OT
- Rui Ribeiro, GÉANT eduCONF OT
- Ben Fineman, Internet2 GNGC
- Bill Efthimiou, AARnet GNGC
- Thomas Bärecke & Daniel Stirnimann, SWITCH OT
- Mihaly Meszaros, NIIF OT
- Bartlomiej Idzikowski, PSNC OT
- Jan Ruzicka, CESNET OT
- Praveen Misra, ERNET GNGC
- Tim Boundy, JANET GNGC
- Alex Galhano Robertson, RNP GNGC

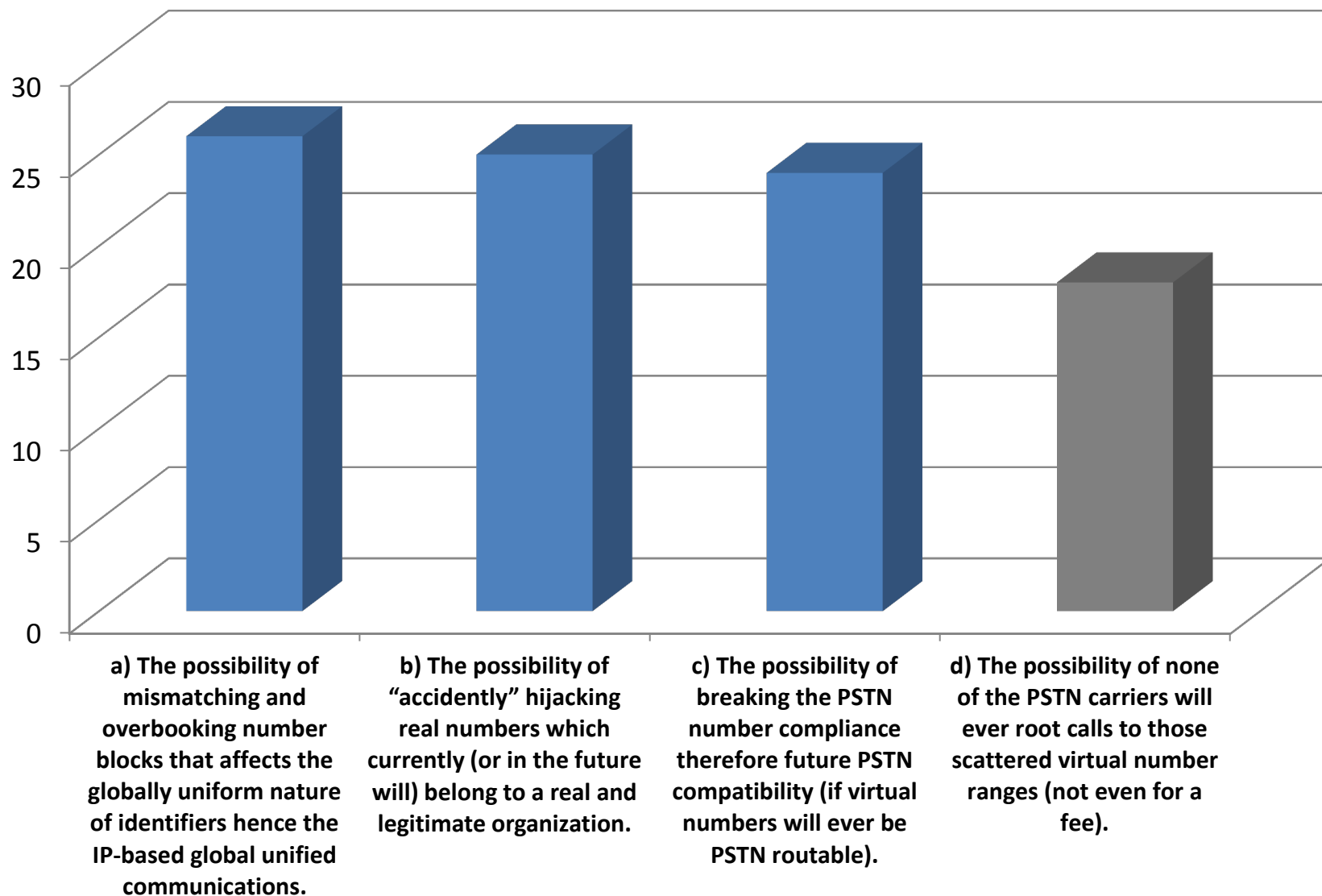
# What do you think NRENum.net is primarily used in the NRENs' voice/video communications infrastructure for?



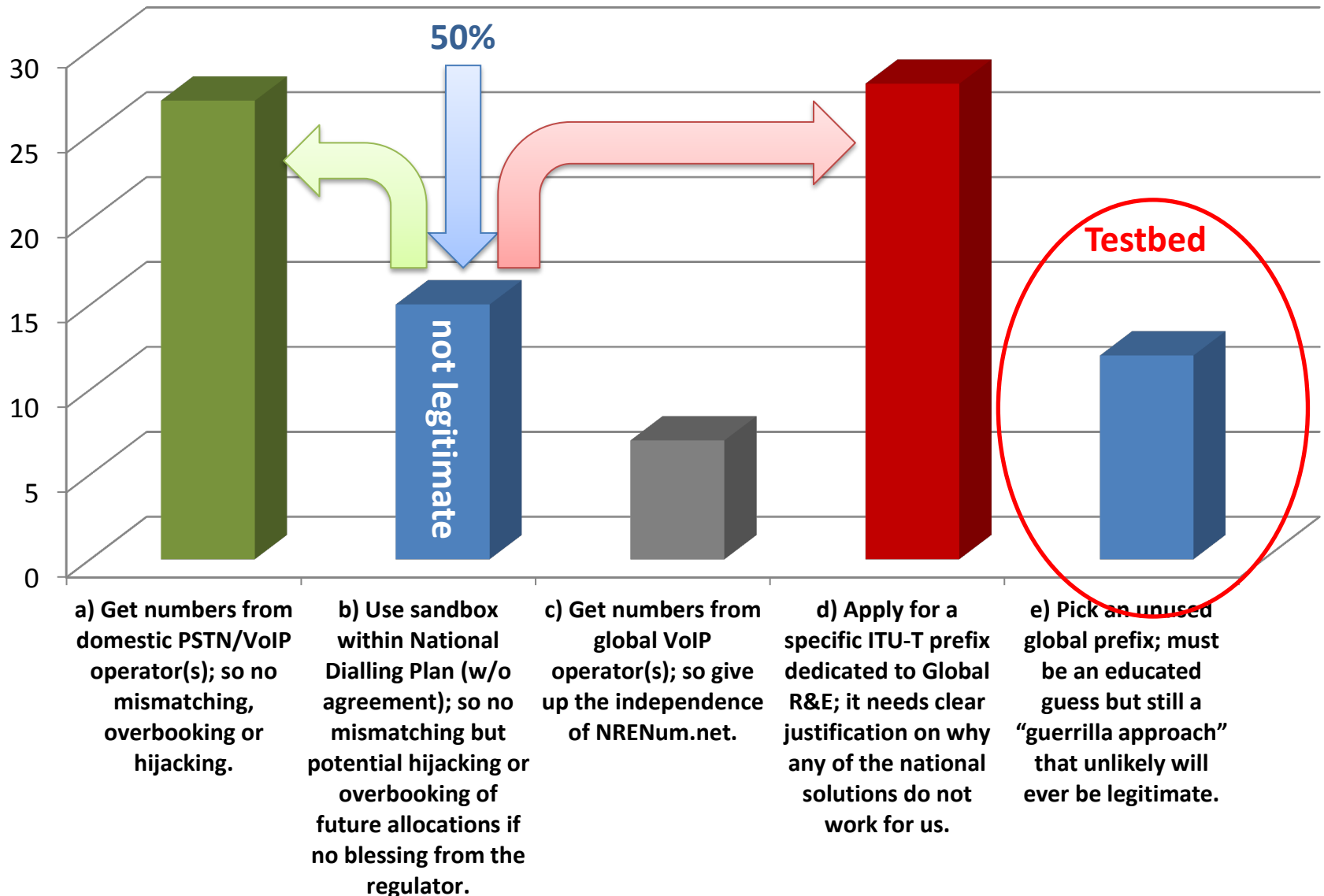
# How relevant do you think the given reason/motivation for using virtual numbers is?



# How critical do you think the issue with using virtual numbers arbitrarily (without any global regulations) in NRENum.net is?

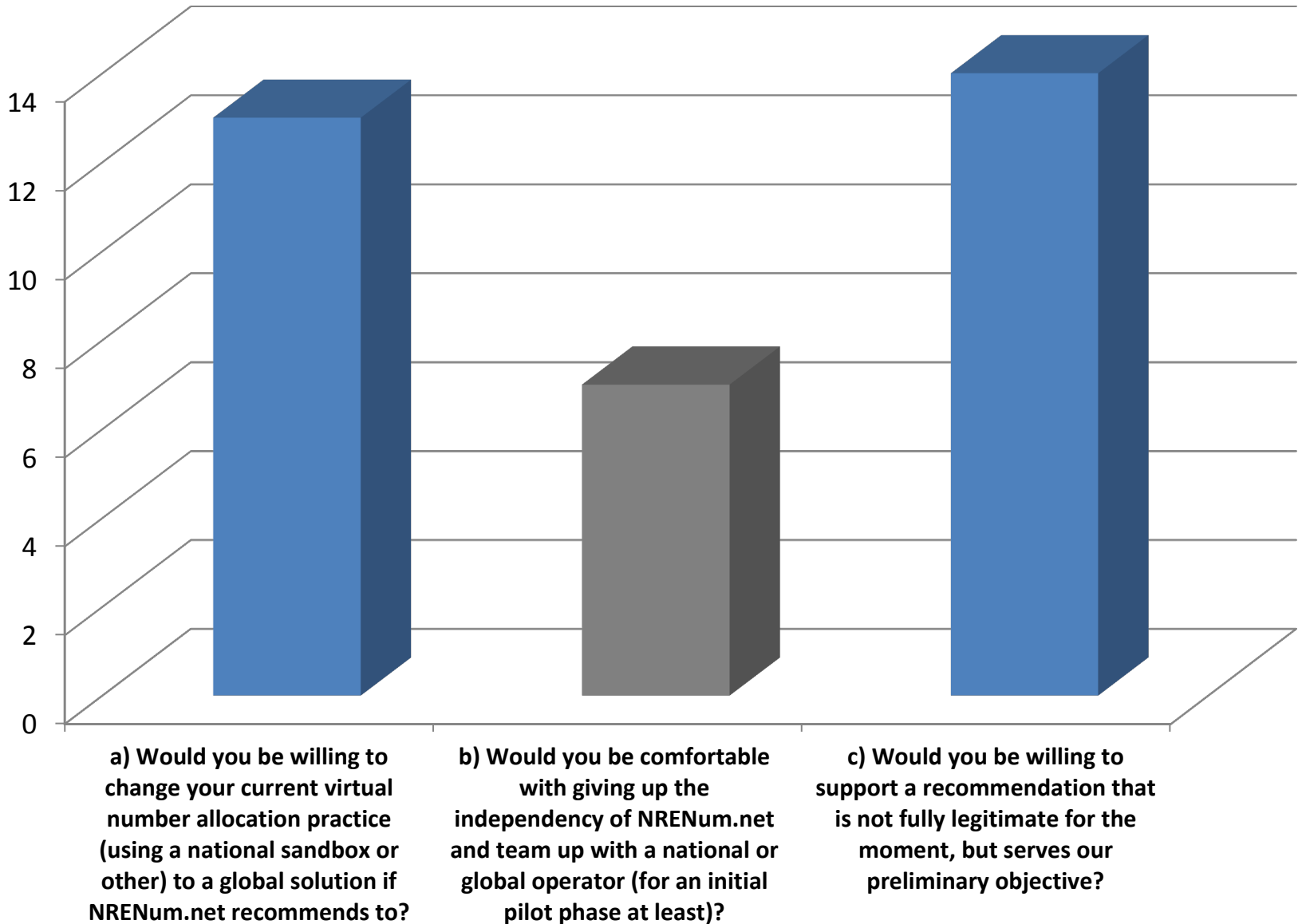


Please, consider the potential solutions listed below and indicate whether or not you think they solve the primary issues.

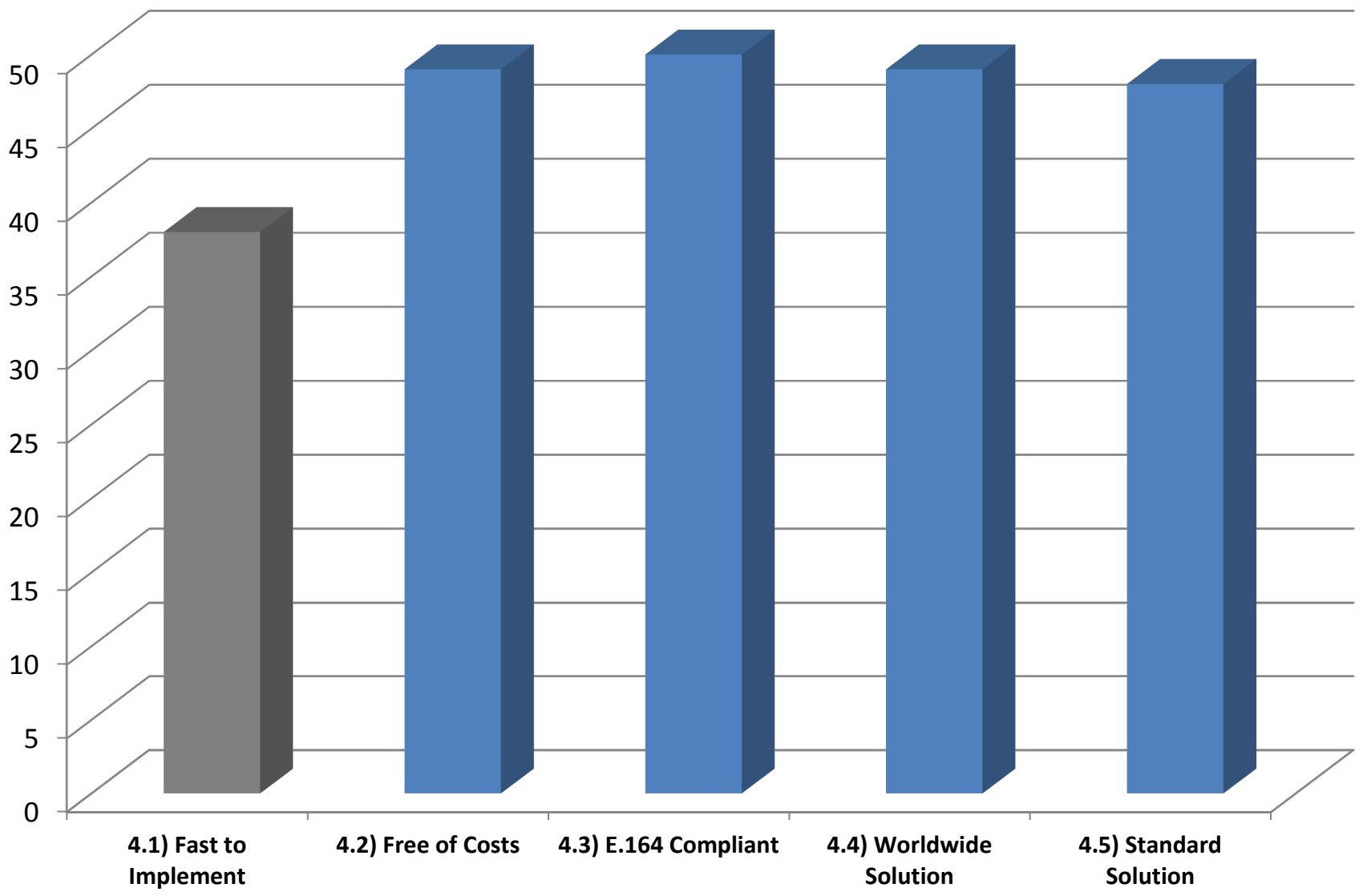




# What's your willingness to change?



# Rate the importance of this feature



# Conclusions

- NRENs has no right to allocate E.164 numbers
  - Cannot change the right-of-use of existing E.164
  - End-user identity paradox (who I am and how to reach me) can be solved by centralised address management (NRENum.net)
- The issue of VN can be solved
  - by best practices (close the eyes and hope for the best)
  - by service policy (excluding 50% ?)
  - by design (this is what we are aiming for)
- Chase NRENs away from b)
  - We need clear use cases and critical mass for Global NREN CC (ITU-T)
  - Numbering Testbed can be an interim step
    - Team up with PHONEWORD initiative
    - Team up with the mobile iMNC (aka. 4G-eduroam) initiative