



**The University of Hong Kong
Public Opinion Programme**

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**The Hong Kong Council of
Social Service**

Survey on Local NGOs' Knowledge on “Cloud Solution” and Security Concerns 2012

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Research Background

- Objective: To understand the current applications of network security in local NGOs, their views and concerns about “Cloud Solution”.
- POP has consulted Microsoft and HKCSS in designing the questionnaire while POP enjoyed full autonomy in fieldwork operation, data collection and data analysis. POP takes full responsibility for all findings reported.
- The research methodology and all survey findings will be open for public consumption.

Contact Information

- Date of survey: April 2 to 20, 2012
- Target population: Representatives of local NGOs who are involved in decision making of IT policies, contact list was provided by HKCSS
- Survey method: HKCSS invited 399 agency members to participate in this survey via email, then the contact list of 101 interested organizations was given to HKUPOP to conduct telephone interviews
- Sample size: Representatives of 93 out of the 101 organizations completed the telephone interviews, the cooperation rate is 98.9%, accounting to 23.3% of the total agency members
- Standard error: Assuming no response bias, at 95% confidence level, the sampling error of all percentages should be no more than +/-9.1 percentage points

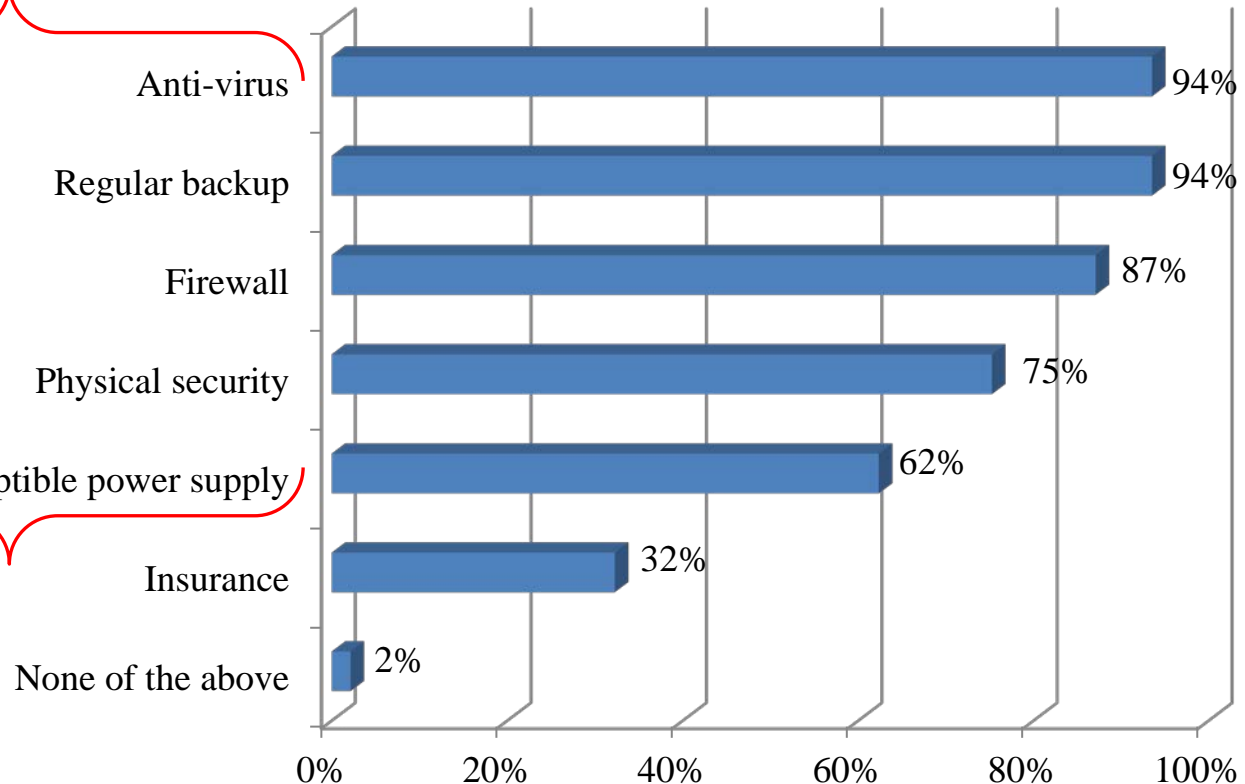


1) Network Security

Almost all organizations use “anti-virus” and “regular backup”

**54% have
all these 5
measures**

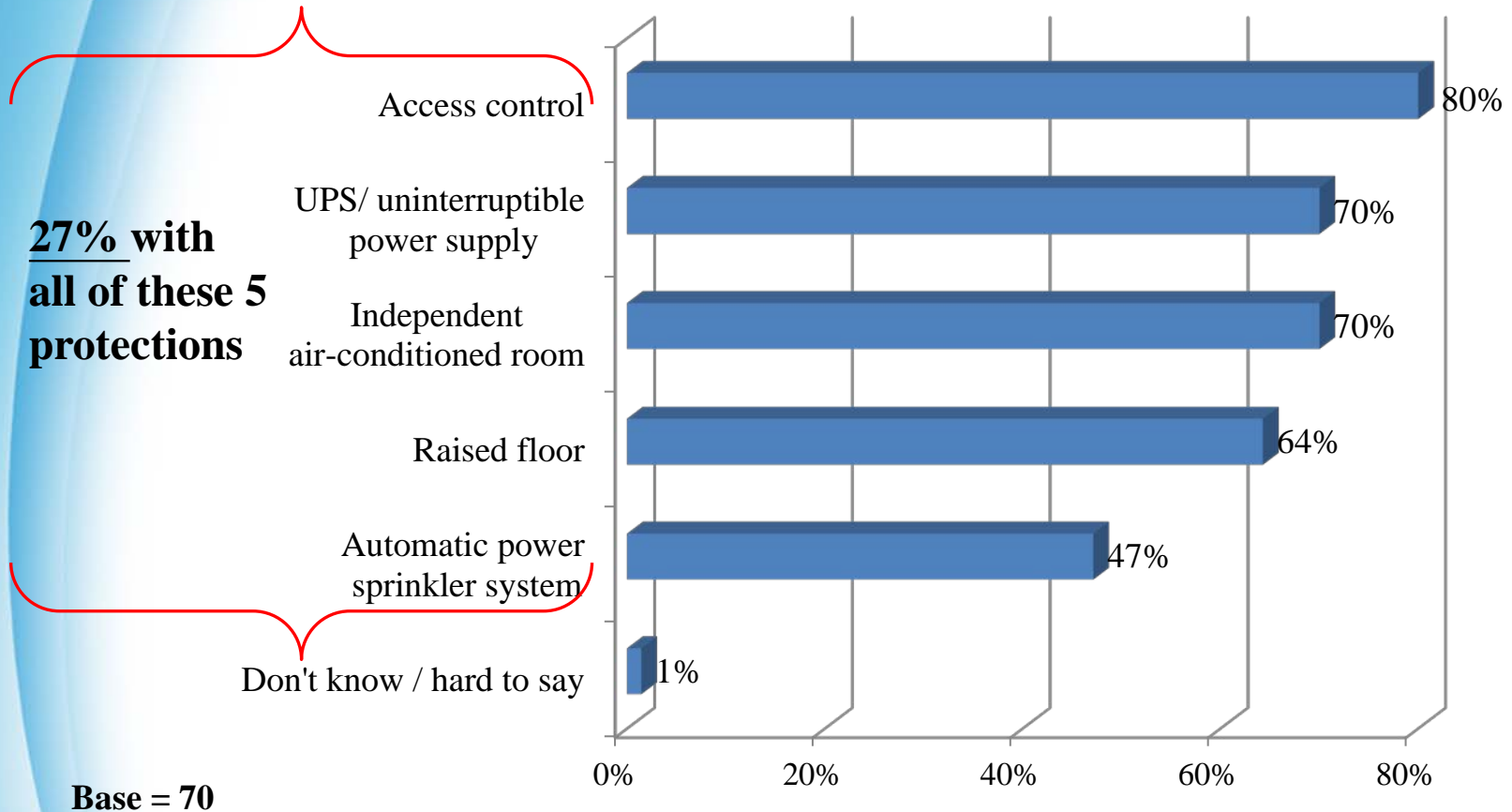
UPS / uninterruptible power supply



Base = 93

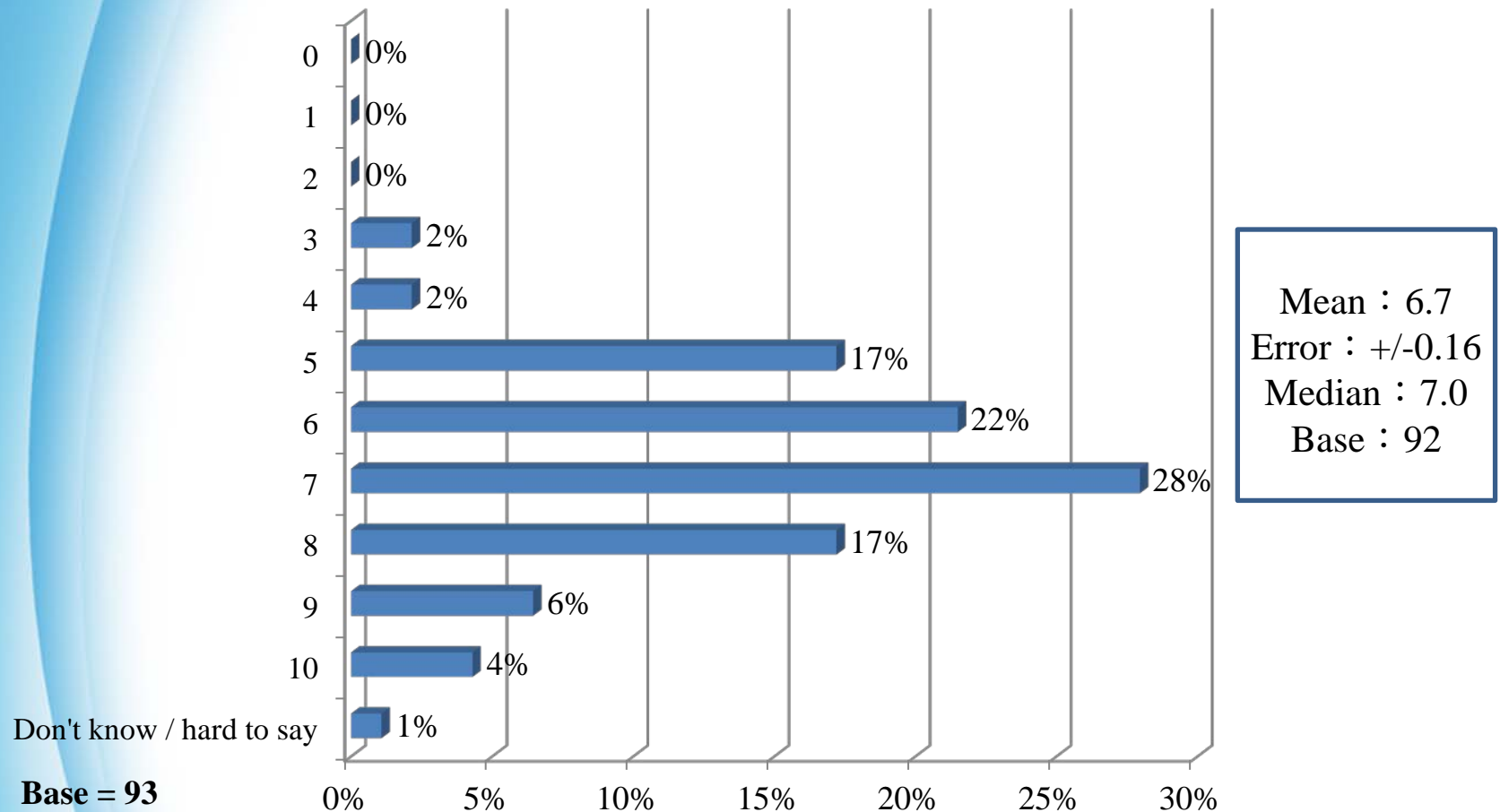
[Q1] Which of the following measures does your organization have to protect the servers / application system?
[Interviewer to read out items 1-6, order to be randomized, multiple responses allowed]

“Access control” is the most commonly used physical security for servers



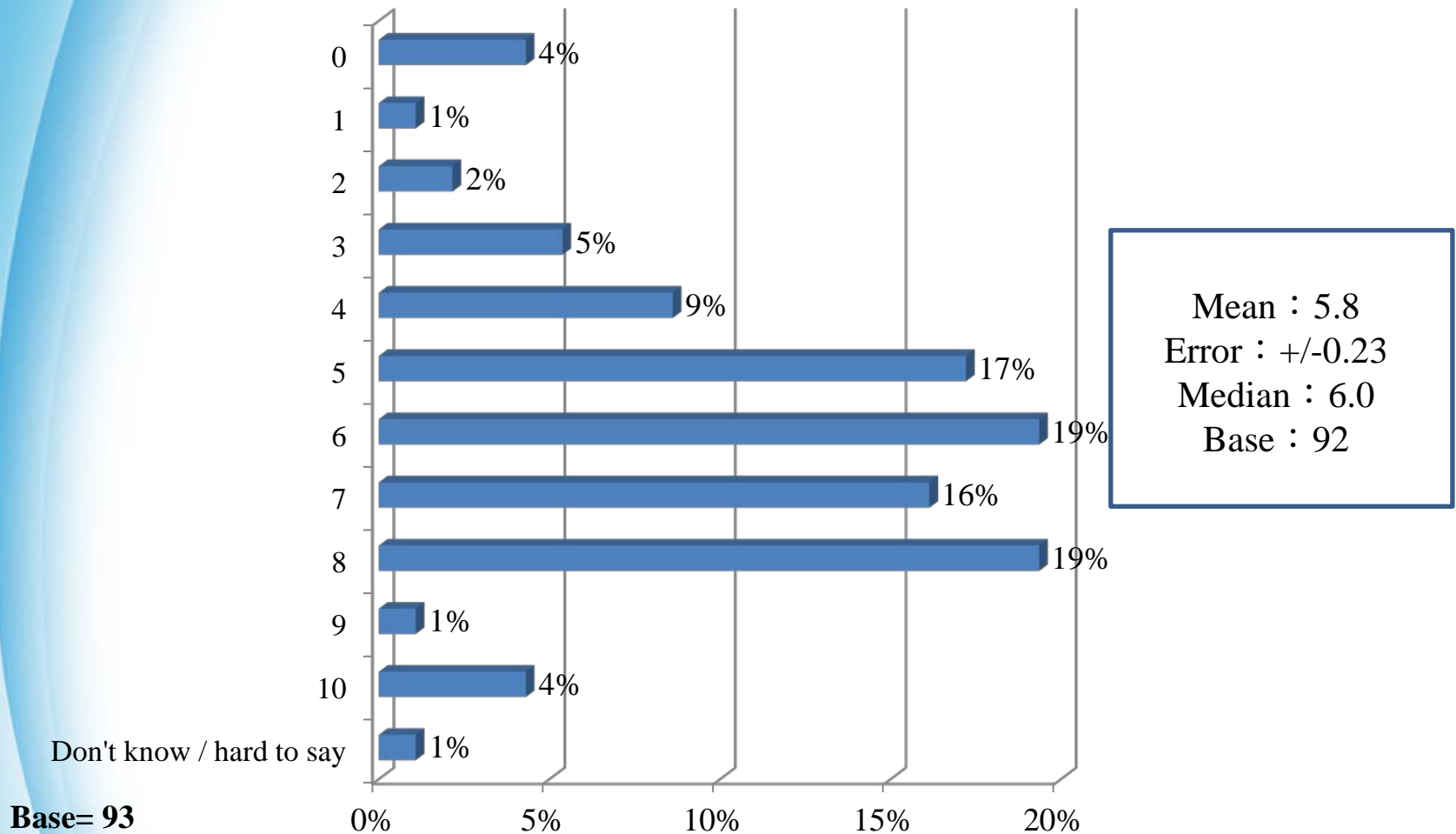
[Q2] [Only ask those who pick “physical security” in Q1] Which of the following physical security does your organization have? [Interviewer to read out items 1-5, order to be randomized, multiple responses allowed]

Organizations' security works of data storage and transfer are perceived to be sufficient



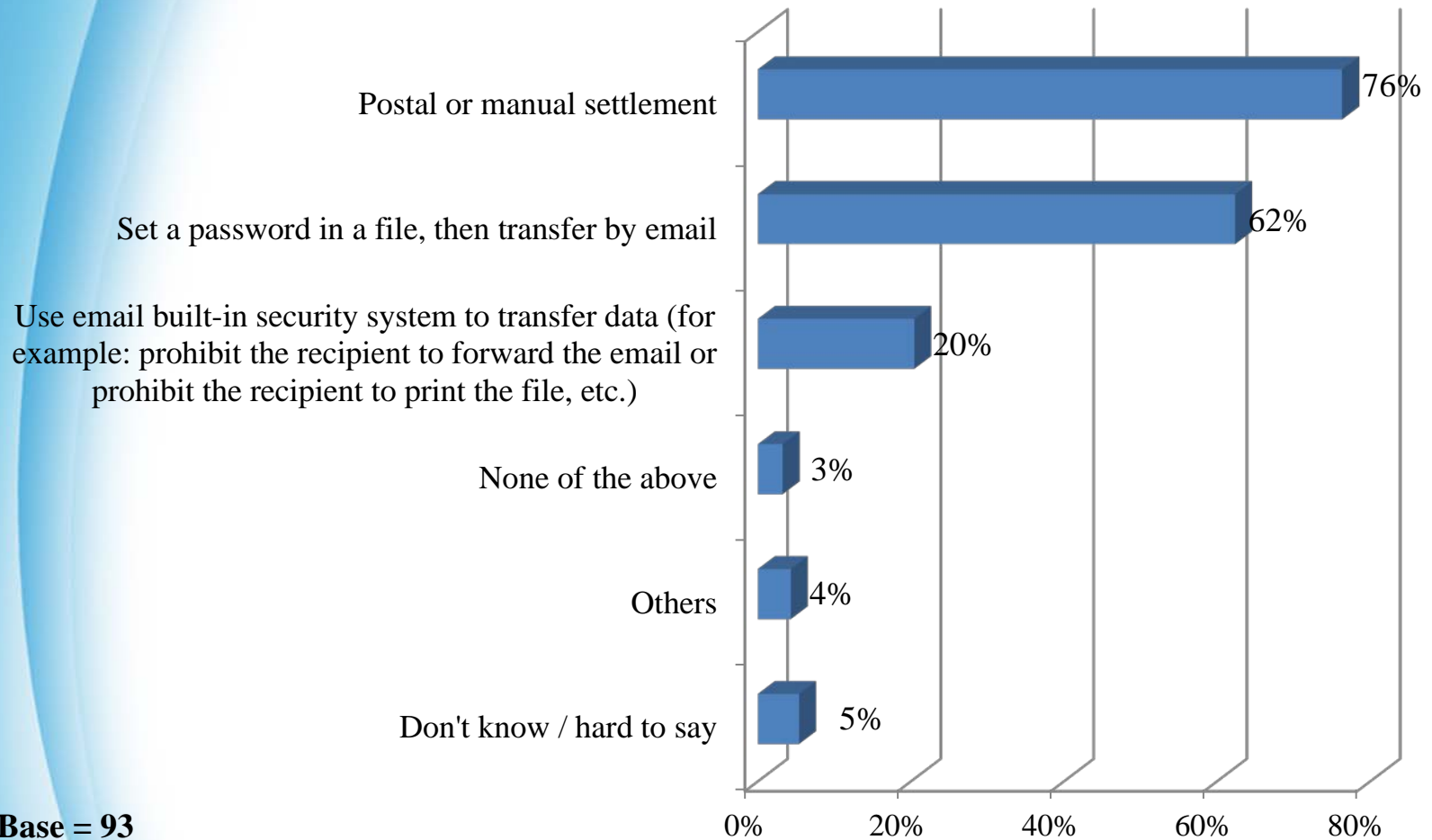
[Q3] Do you think the security work of data storage and transfer in your organization is sufficient in the past year? Please use a scale of 0 -10 marks to rate the sufficiency, in which 0 represents totally insufficient, 5 represents half-half, 10 represents very sufficient.

Respondents generally think there is no urgent need to enhance the security works of data storage and transfer



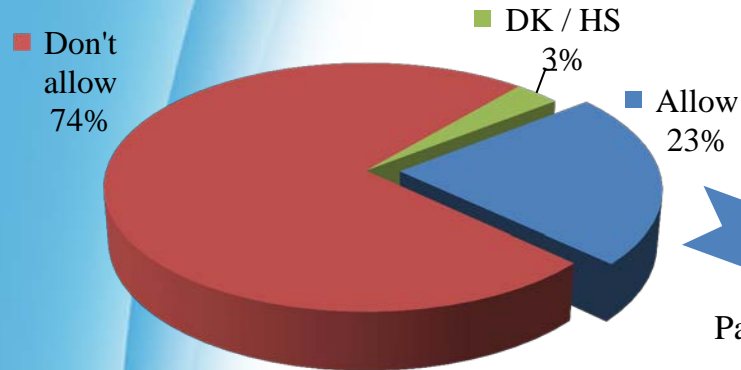
[Q4] Do you think your organization is in need to enhance the current security work and/or facilities in data storage and transfer. Please use a scale of 0 -10 marks to rate how much your organization is in such need, in which 0 represents no enhancement is needed at all, 5 represents half-half, 10 represents enhancement is urgently needed.

Most organizations use “postal or manual delivery” to avoid leakage of important/confidential data



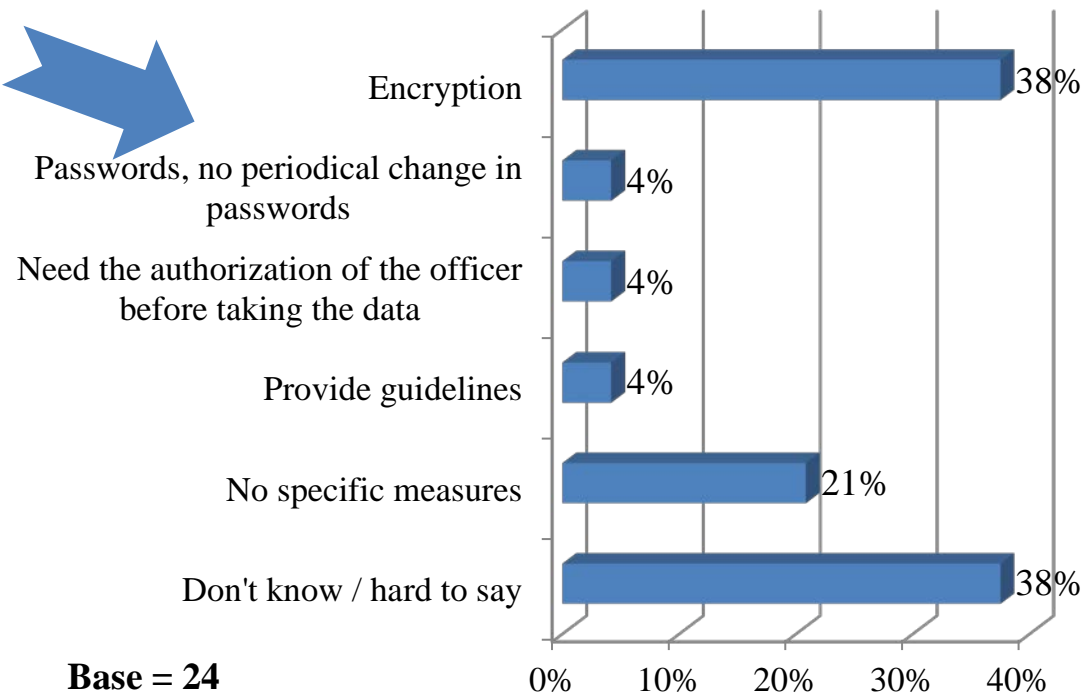
[Q5] What kind of measures does your organization use to ensure that the data will not be disclosed when transferring important or confidential data / files? [Interviewer to read out items 1-3, order to be randomized, multiple responses allowed]

Nearly 3/4 prohibit employees from taking confidential data out of their premises, where encryption is the most common protective measure used to avoid information leakage



Base = 93

[Q6] Does your organization allow employees to take confidential data, such as users' personal data, away from the office by using USB or other hardware?



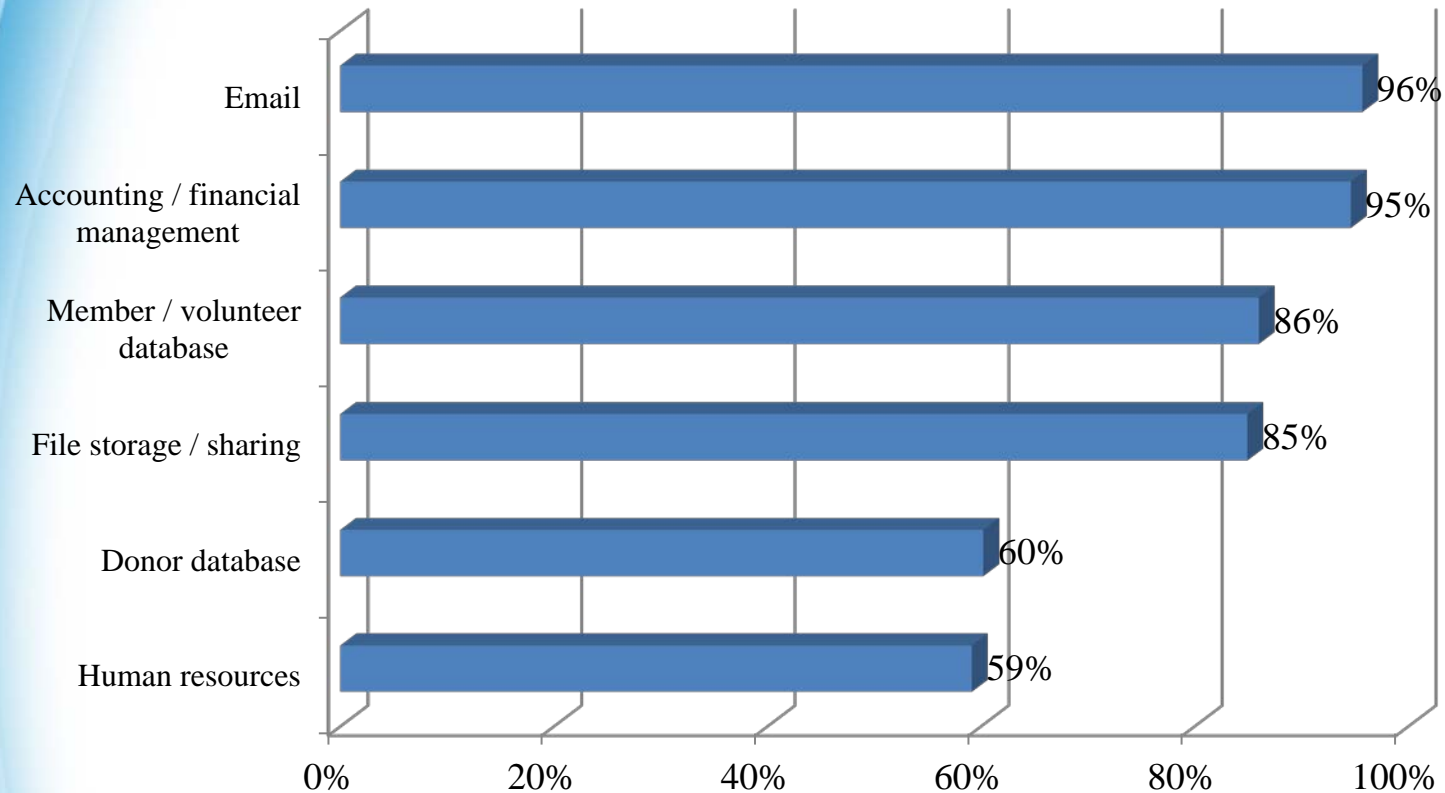
Base = 24

[Q7] [Only ask those who answer "allow" or "don't know/hard to say" in Q6, base=24] How does your organization ensure the office data stored in USB or other hardware will not be leaked? [Do not read out answers, multiple responses allowed]



2) Cloud Solution

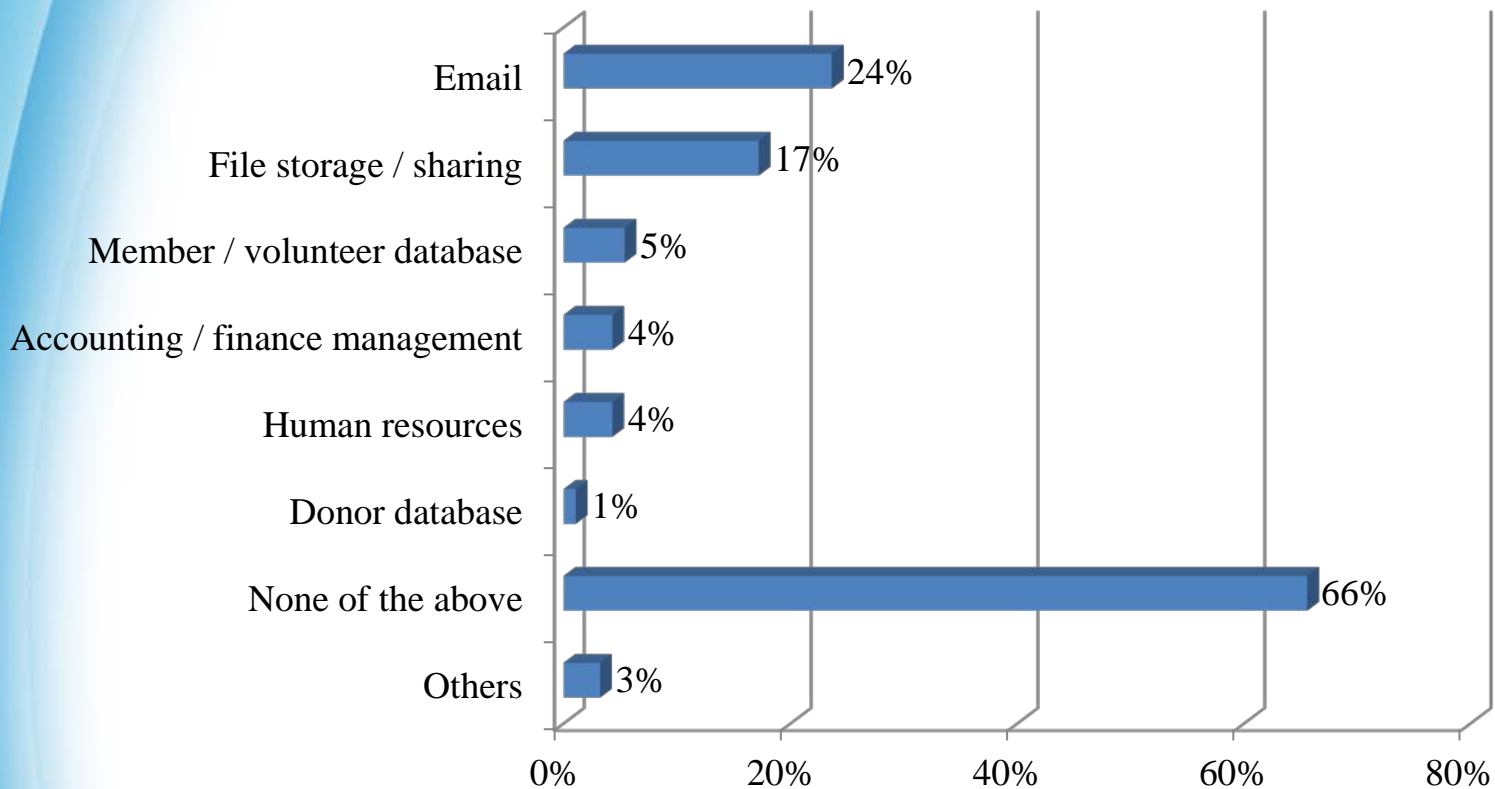
Almost all organizations currently use “email” and “accounting/financial management” programs



Base = 93

[Q8] Which of the following computer program(s) does your organization use currently? [Interviewer to read out items 1-6, order to be randomized, multiple responses allowed]

2/3 NGOs are not current users of any “Cloud Solution” systems

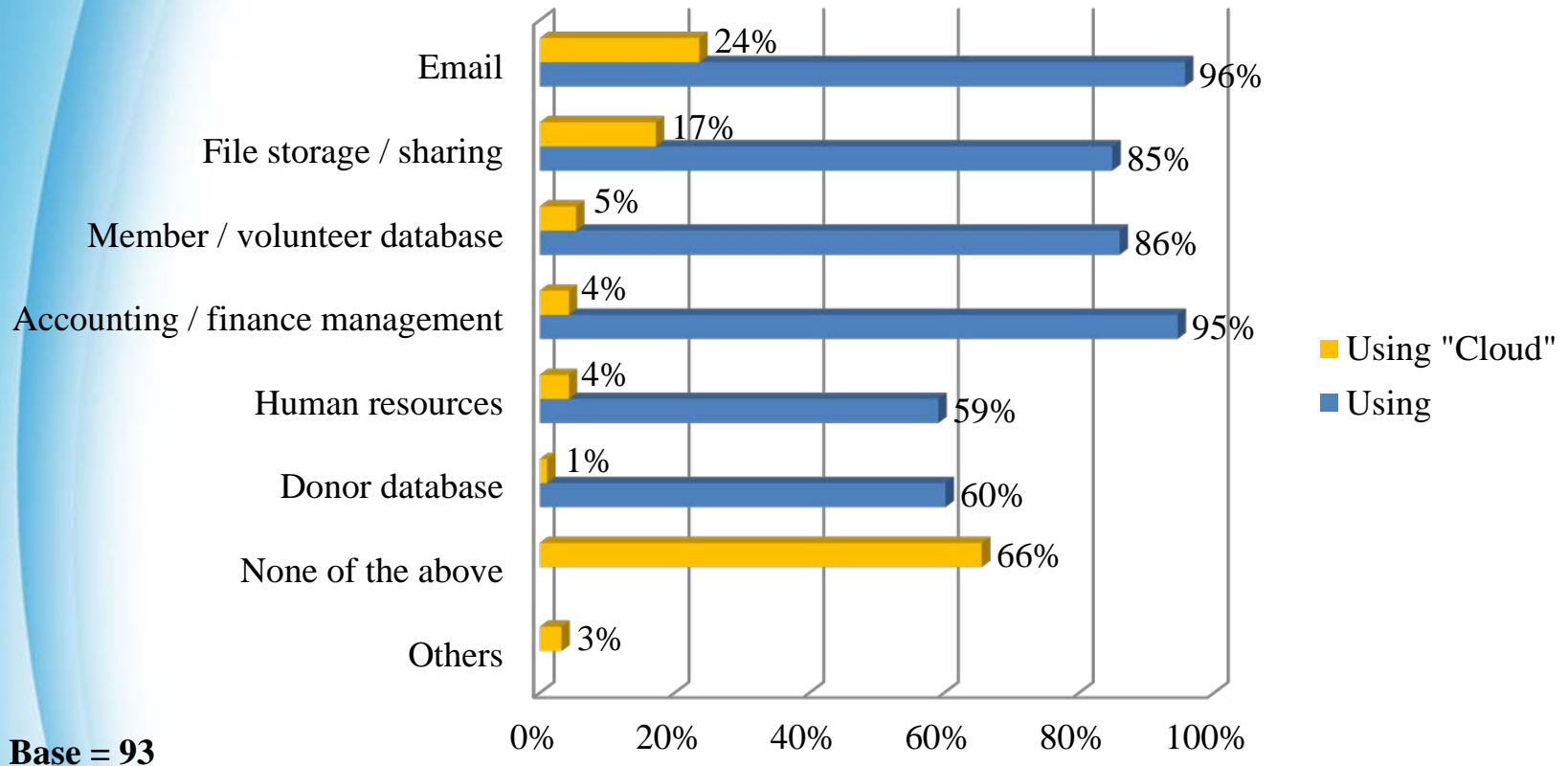


Base = 93

[Read out: “Cloud Solution” basically refers to sharing and storing softwares through the Internet, but not in hardware and local intranet. As a result, once you connect to the Internet, you can use the softwares based in “Cloud Solution”. In other words, you are not limited to use the softwares in the office.]

[Q9] Which of the following “Cloud Solution” system(s) does your organization use currently? [Interviewer to read out items 1-6, order to be randomized, multiple responses allowed]

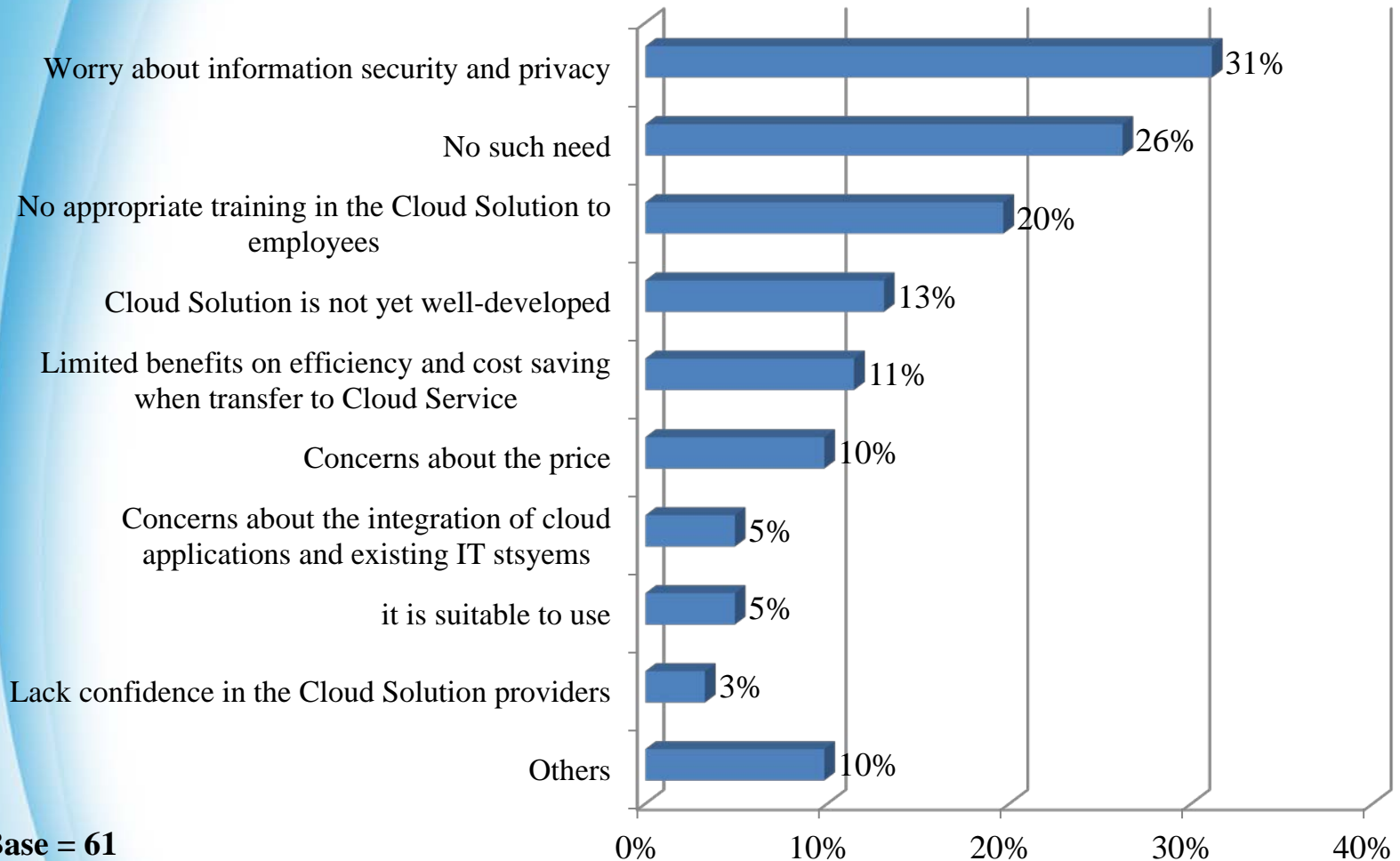
Current situation of using “Cloud Solution” systems



[Q8] Which of the following computer program(s) does your organization use currently? [Interviewer to read out items 1-6, order to be randomized, multiple responses allowed]

[Q9] Which of the following “Cloud Solution” system(s) does your organization use currently? [Interviewer to read out items 1-6, order to be randomized, multiple responses allowed]

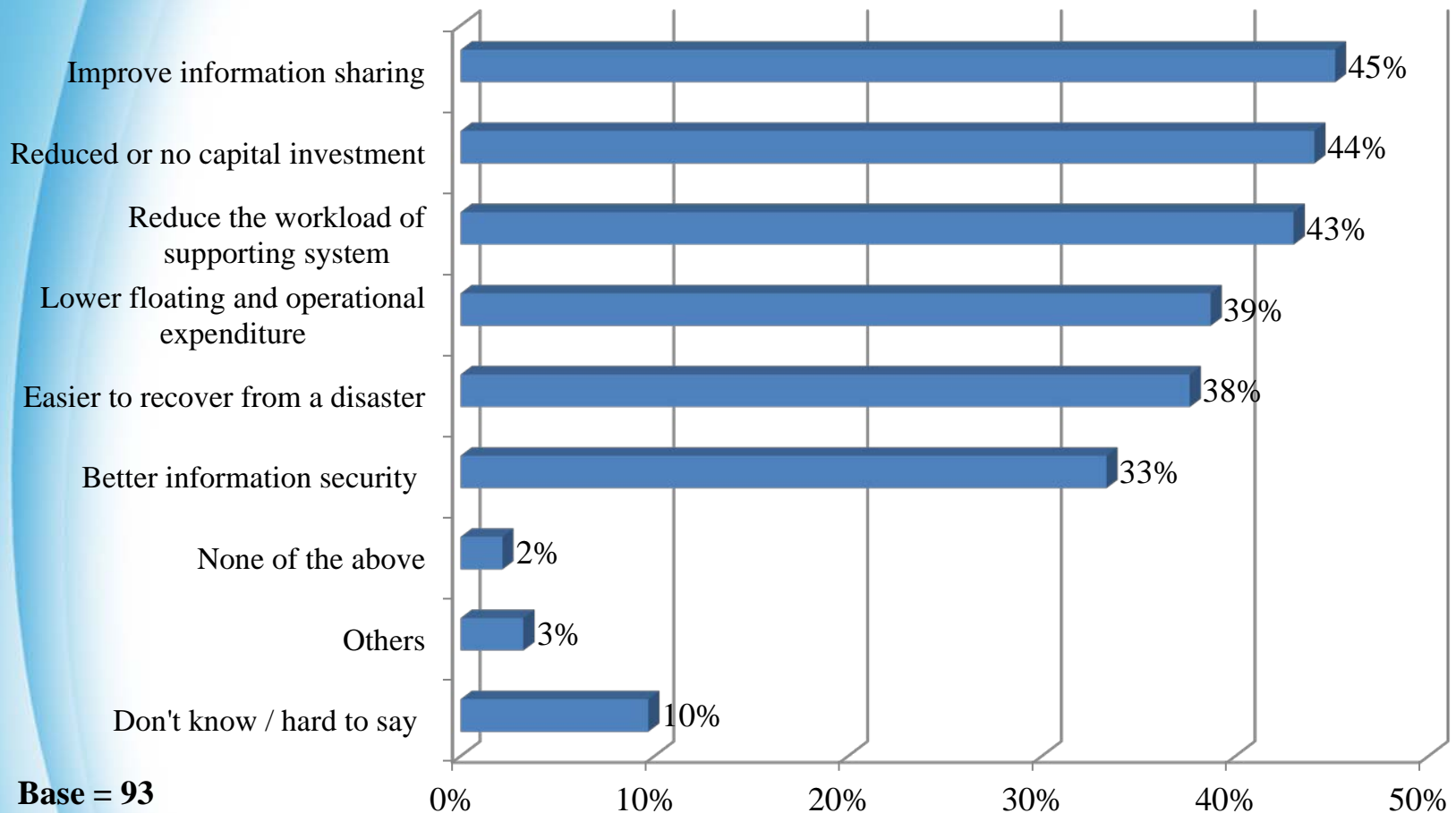
“Worry about information security or privacy” the No.1 reason for not using “Cloud Solution”



Base = 61

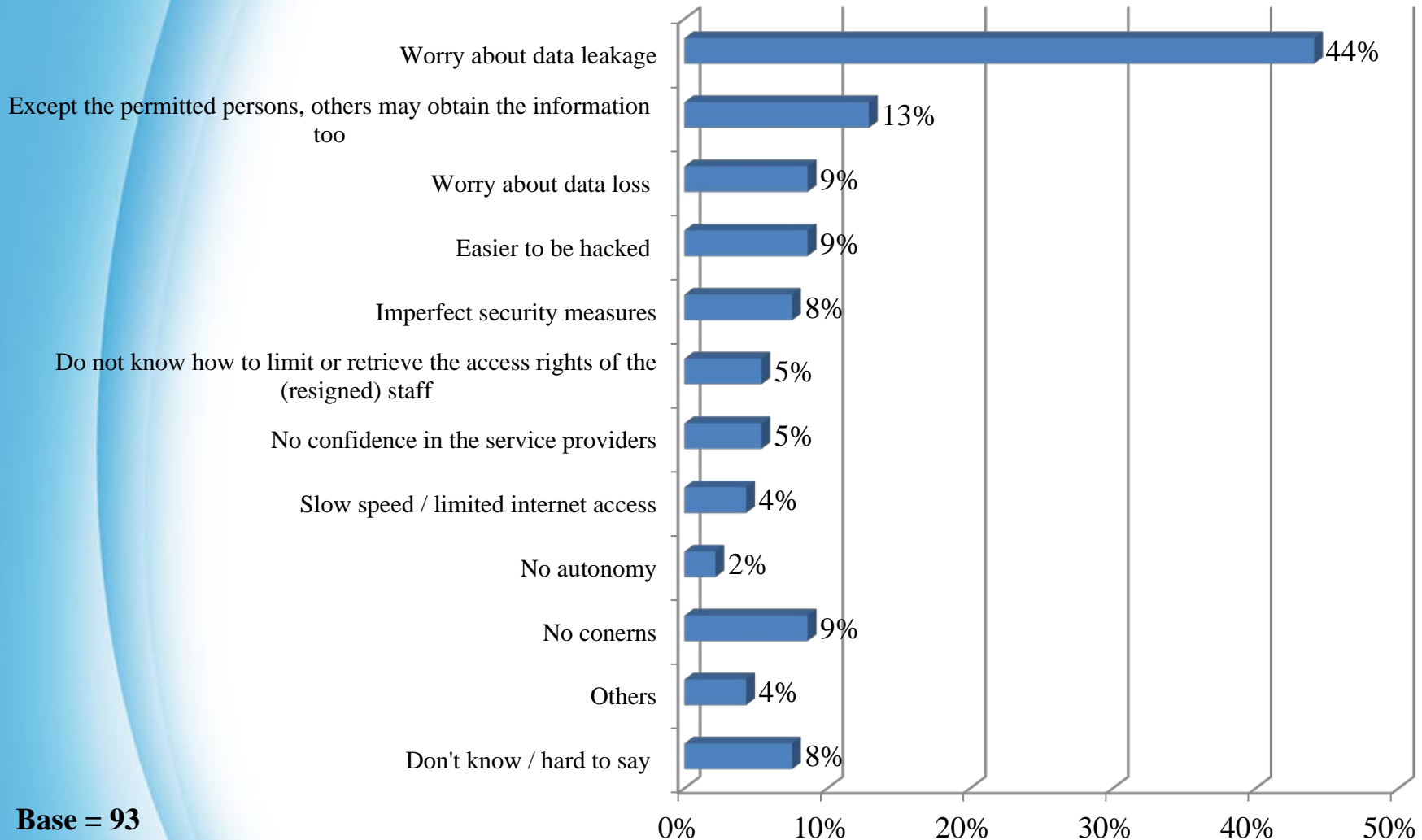
[Q10] [Only ask those who answered “none of the above” in Q9] What is / are the reason(s) for not using “Cloud Solution” in your organization? [Do not read out answers, multiple responses allowed]

Call for “improvement in information sharing”, “reduced or no capital investment” and “reducing the workload or supporting system” to attract users



[Q11] What reason(s) would you consider to be the most attractive for your organization to transfer IT to Cloud Service? [Interviewer to read out items 1-6, order to be randomized, multiple responses allowed]

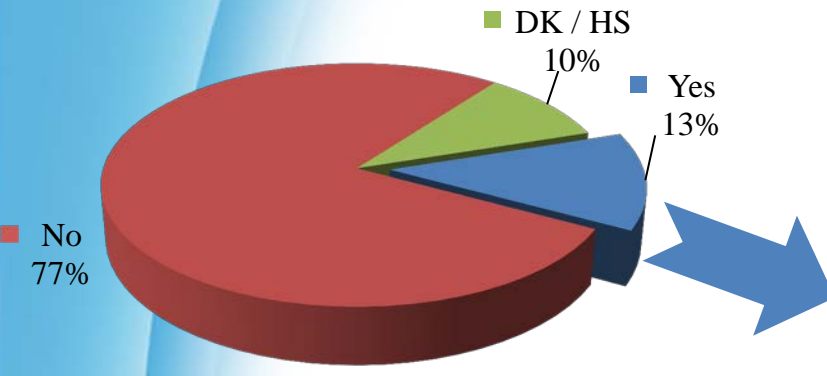
Nearly half of the organizations express concern on potential data leakage



Base = 93

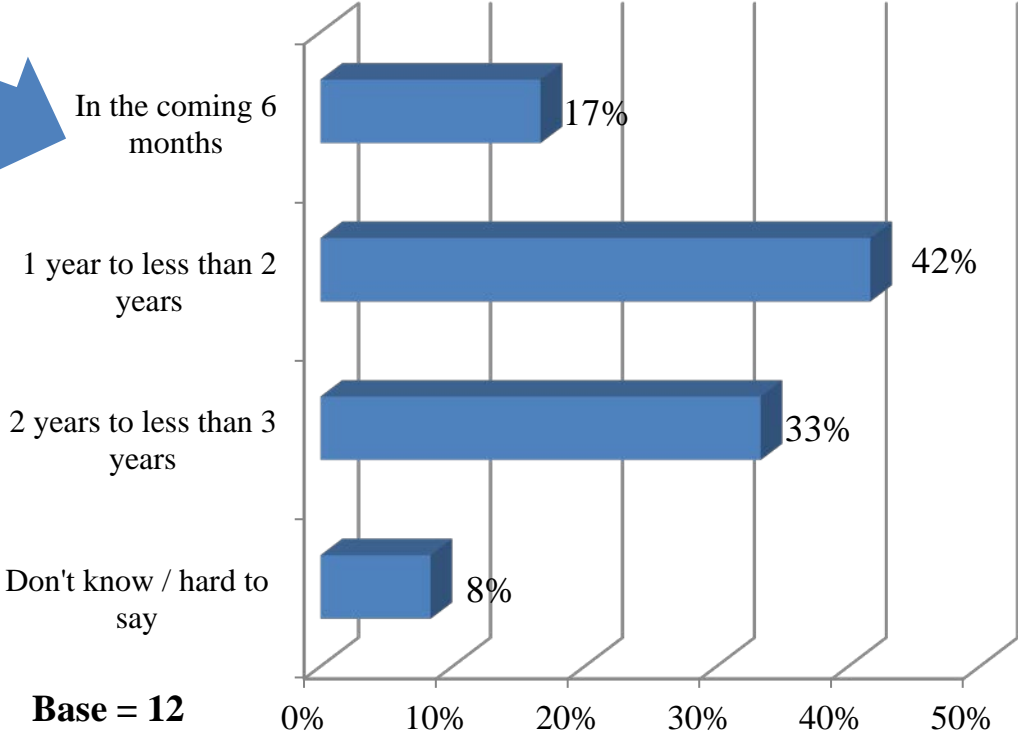
[Q12] What is/are your main concern(s) on the information security of "Cloud Solution"? [Do not read out answers, multiple responses allowed]

About 1/8 anticipate they will transfer most of their IT to “Cloud” within the next 3 years



Base= 93

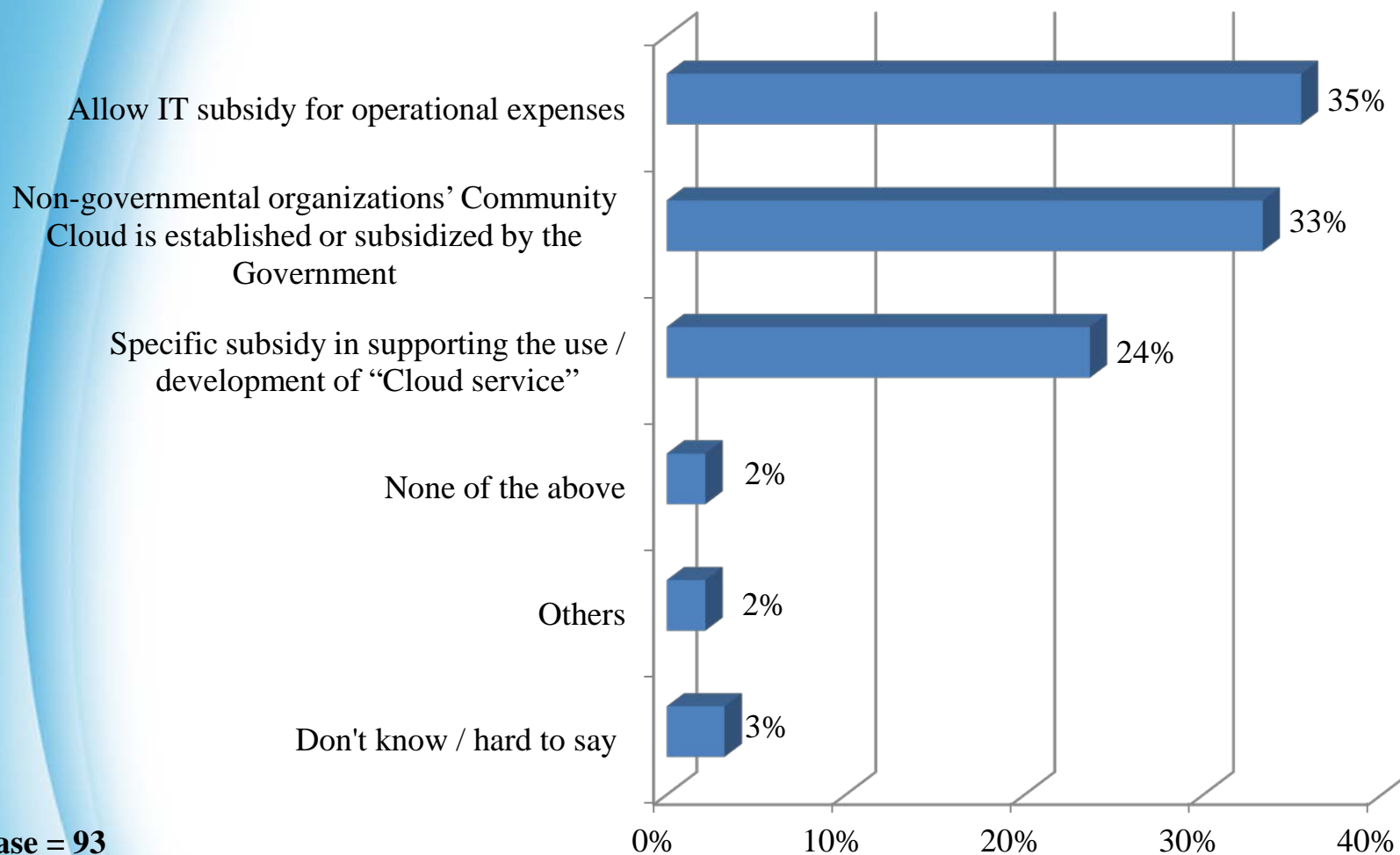
[Q13] Would you expect your organization will transfer most of the IT (databases, e-mail or file storage) to “Cloud” within the next three years? (interviewer can read out: “most” means more than 50% of application system)



Base = 12

[Q14] [Only ask those who answered “yes” in Q13] When will it be?

“Allowing IT subsidy for operational expenses” and “government initiated/subsidied Community Cloud” are perceived as effective means in encouraging local NGOs to use “Cloud Solution” in future



Base = 93

[Q15] Which of the following mode(s) of subsidy would you consider more effective for the Government to promote non-governmental organizations to use “Cloud Solution”? [Interviewer to read out items 1-3, order to be randomized, one response allowed]

Conclusion

- Only slightly more than half of the NGOs interviewed have used all 5 server protective measures, namely, “anti-virus”, “regular backup”, “firewall”, “physical security” and “uninterruptable power supply”.
- Organizations generally perceived they have sufficient security works of data storage and transfer, and they do not see an urgent need to enhance the corresponding works/facilities.
- Postal or manual settlement is the most common measure to prevent data leakage to outside while most organizations prohibit their employees to take confidential data away from office premises.

Conclusion (Cont.)

- Worry about information security or privacy is reportedly the top major concern for not using “Cloud Service”. Improvement in information sharing can best attract local NGOs to subscribe “Cloud Service”.
- 70% of the NGOs interviewed say that in the next three years, they will not transfer most of the IT to “Cloud”.
- Allowing IT subsidy for operational expenses and government initiated/subsidized Community Cloud are perceived as most effective in encouraging local NGOs to use “Cloud Solution”.



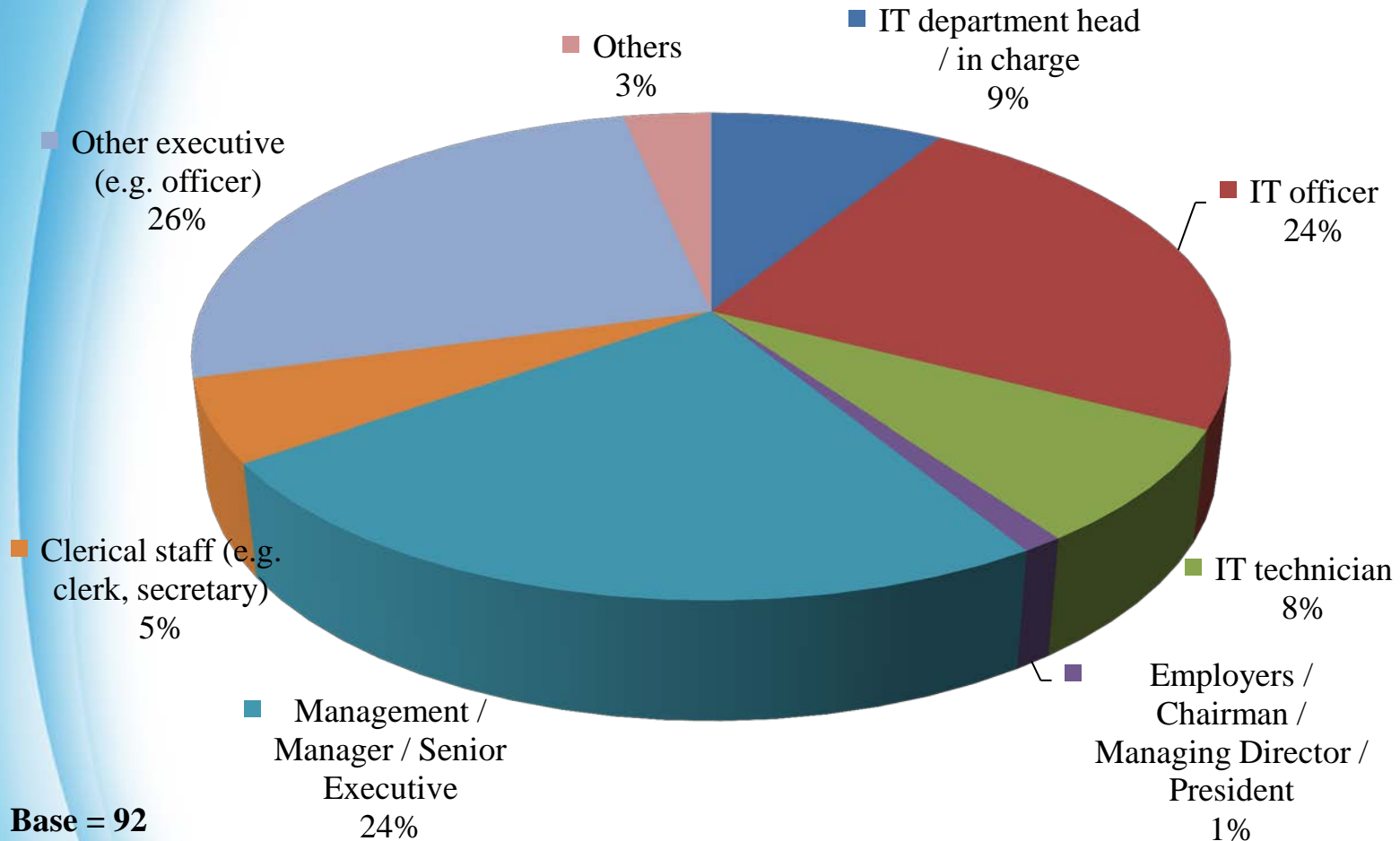
Profile Information of Interviewed Organizations

Categorization of Organizations

Category	Annual Expenditure* (HK\$)	Percentage (number)
Small size organization	Below 1 million	14% (13)
Medium size organization	Between 1 million and 10 millions	45% (42)
Large size organization	More than 10 millions	41% (38)
Total		93

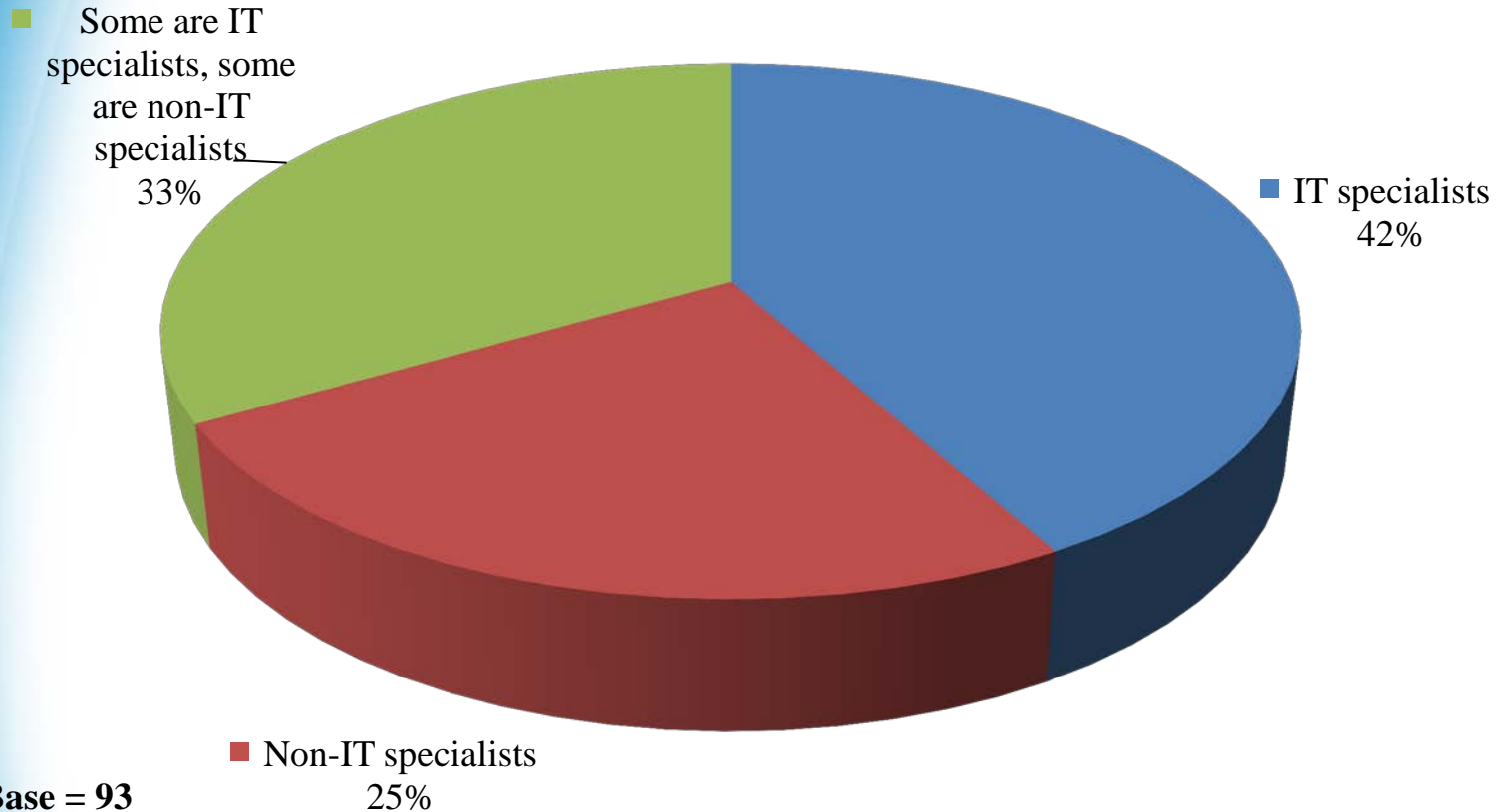
* Categorization was based on the expenditure of Year 2010-11.

Position of Respondents



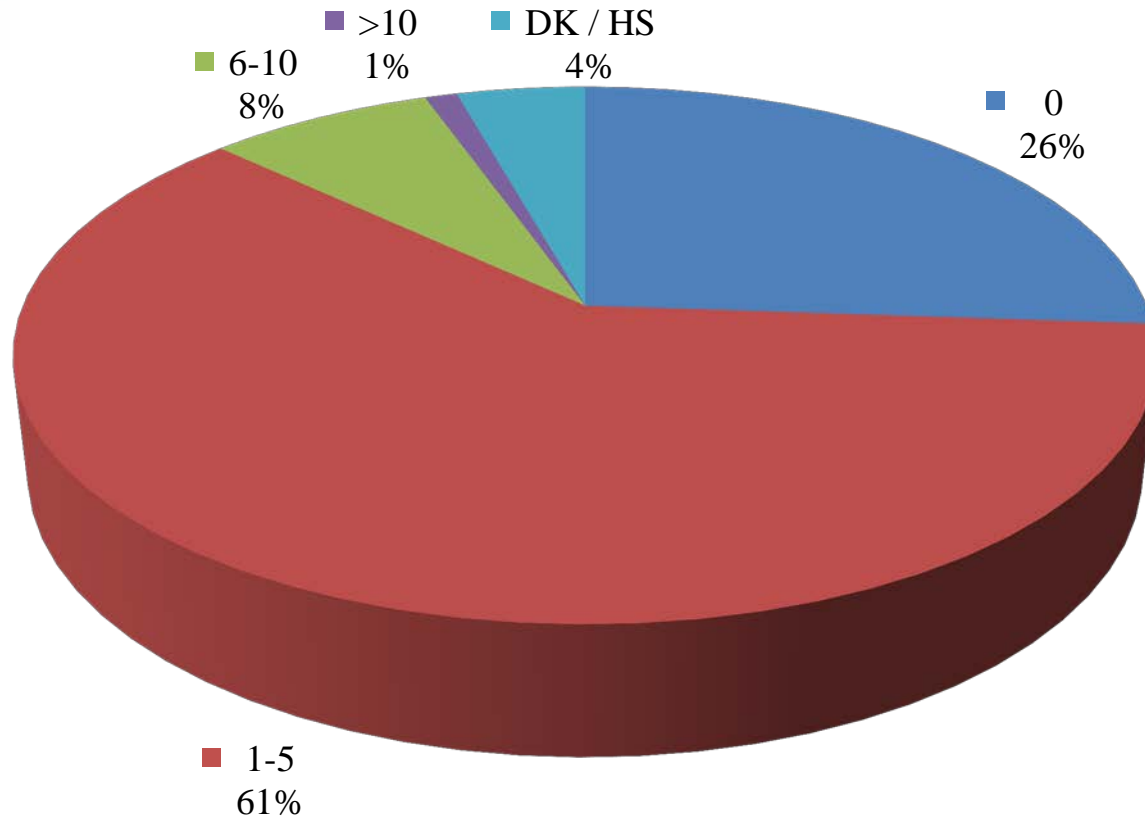
Base = 92

Staff responsible for IT affairs



[DM1] People who are responsible for IT affairs in your organization are mainly: (IT specialist indicates people who are mainly responsible for IT services and resolve the needs of internal IT services)

Number of IT specialists



[DM2] How many IT specialists in your organization in total?

The End

For detailed report, please visit
<http://hkupop.hku.hk>