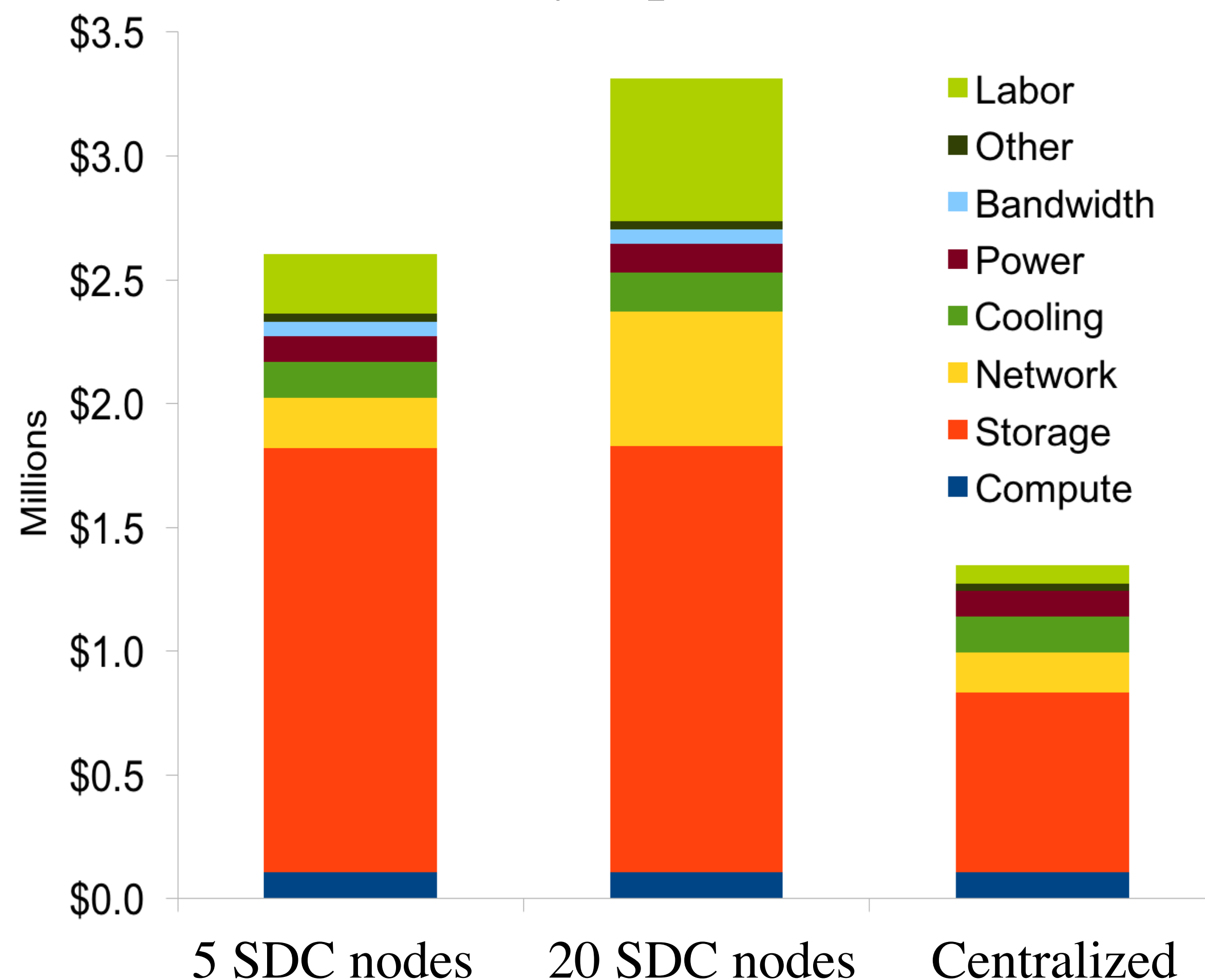


Regional Centre Costing

Michael Wise

ASTRON (Netherlands Institute for Radio Astronomy)
AENEAS Plenary Meeting, Granada, October 19, 2017

Monthly Operational Cost



Hardware Investment

“Never move the data.”

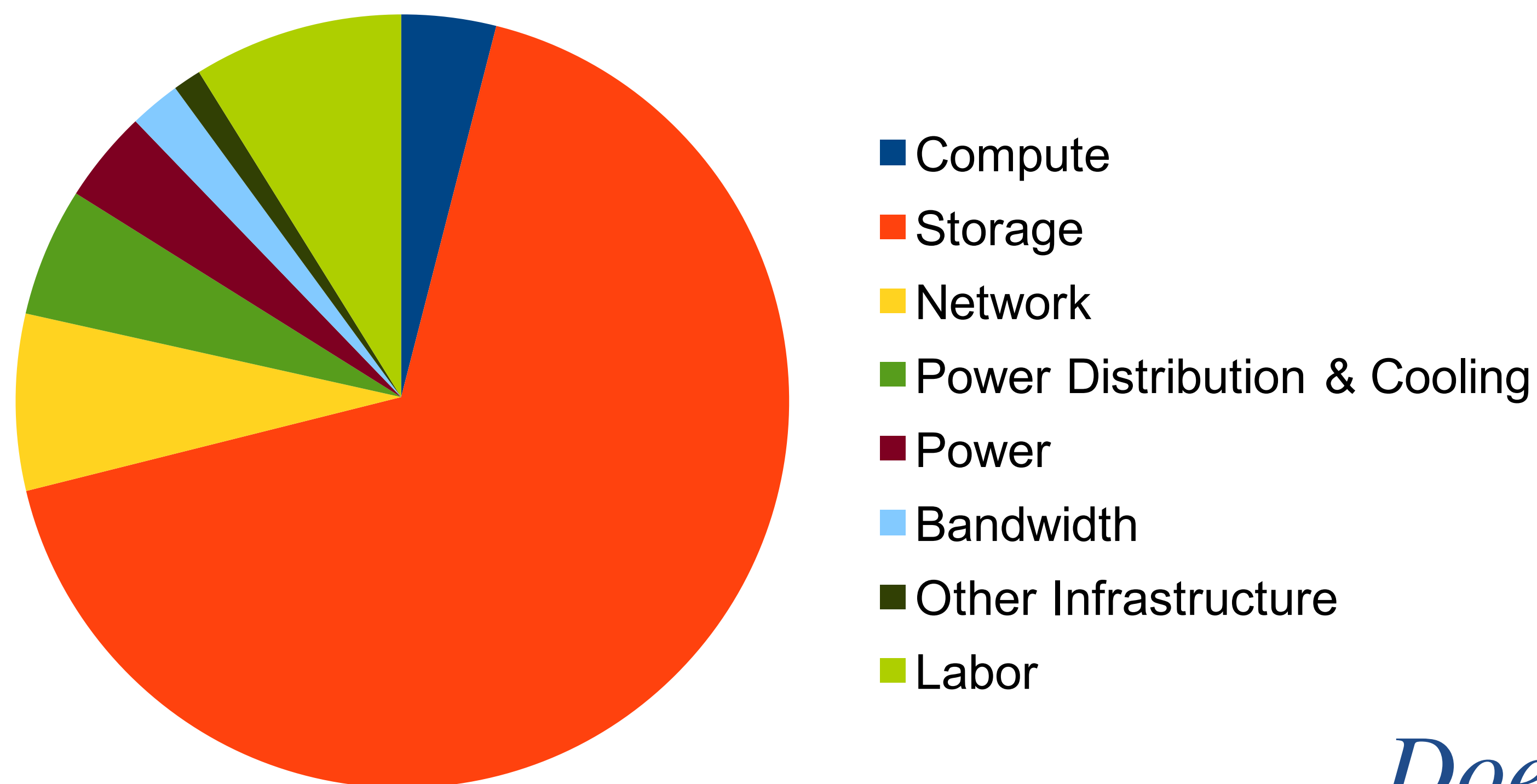
- Engineers

“We’re moving the data.”

- Everyone else

Does the RCA need to care?

Hardware Investment

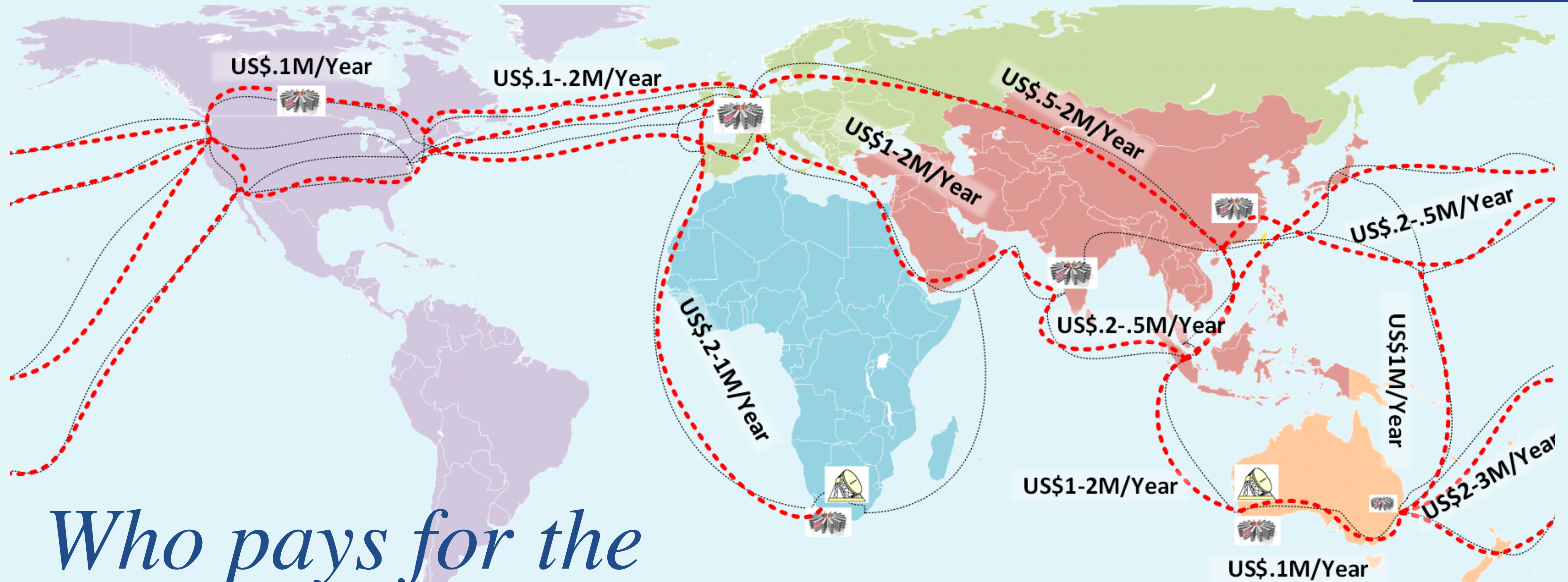


485 k€ / month / node

5.8 M€ / year / node

29.1 M€ / year total

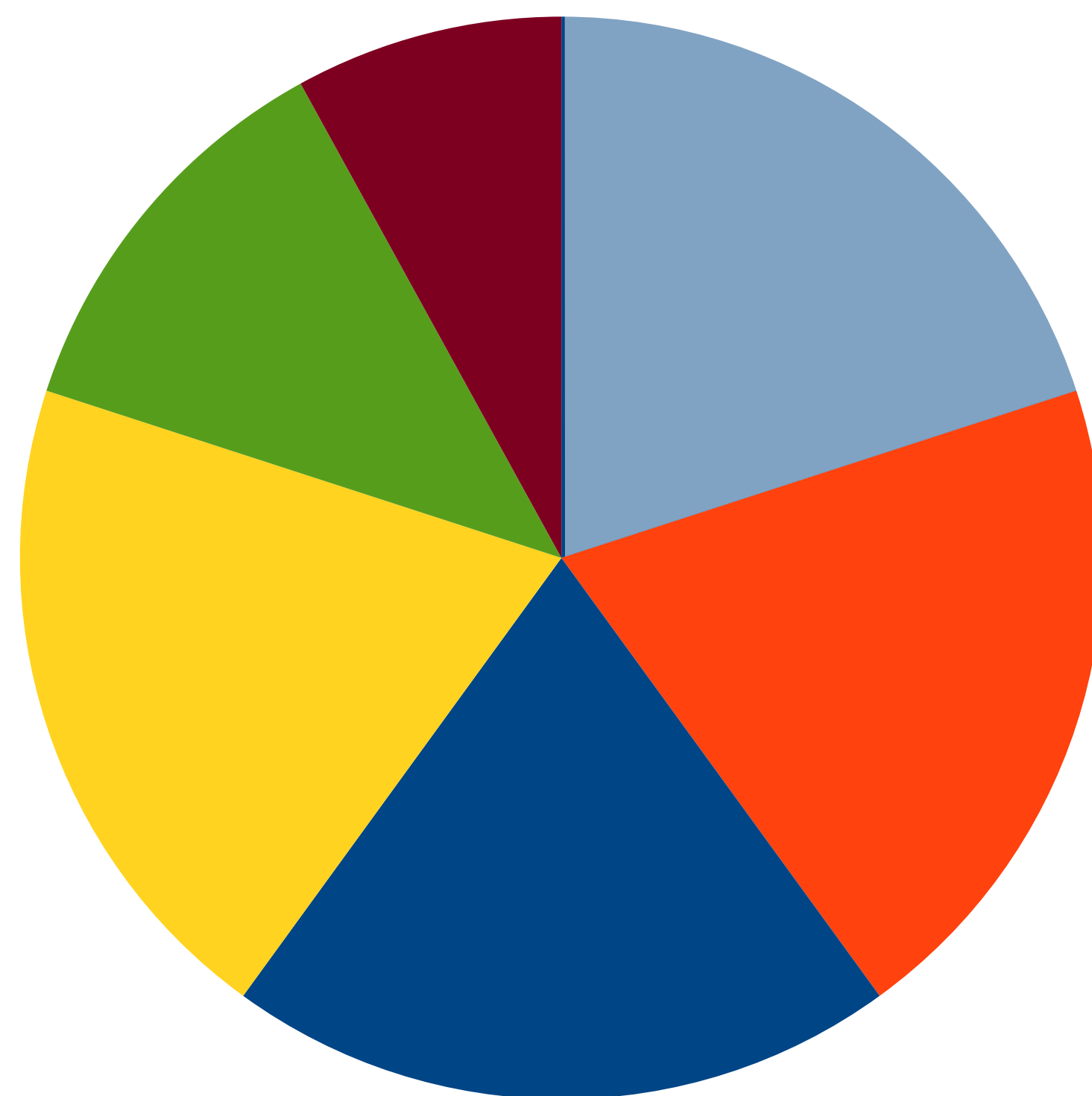
Does the RCA need to care?



*Who pays for the
network?*

- Fibre Cable Systems – SKA relevant
- Major NREN Paths – SKA relevant

Personnel Costs



Staff Activity	Number	Fraction
User Support (proposal preparation and observing)	5	20%
Data Scientists (data access and analysis)	5	20%
Research Scientists (research and development)	5	20%
Software Engineers (development of analysis systems)	5	20%
Software Maintenance, Testing, and Documentation	3	12%
Management	2	8%
Total personnel:	25	
Total monthly personnel costs:	€208,333.33	

208 k€ / month / node
2.5 M€ / year / node
12.5 M€ / year total

*“Hey, what about
the ALMA regional
centre nodes?”*