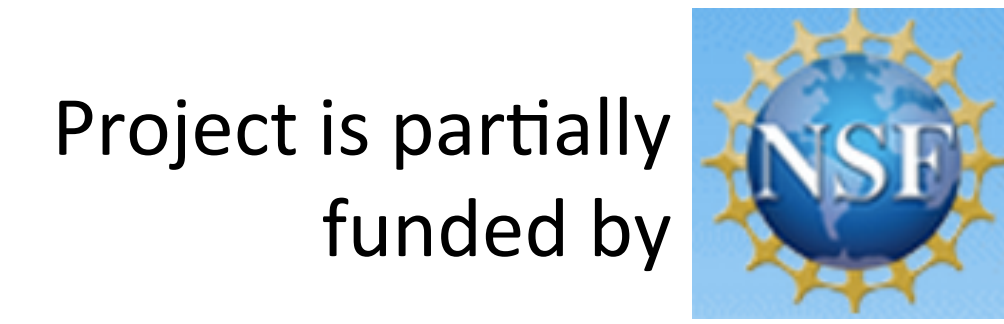


Network Function Instantiation using Virtual Topology Services

Nicholas Bastin, Long Tran, and Deniz Gurkan

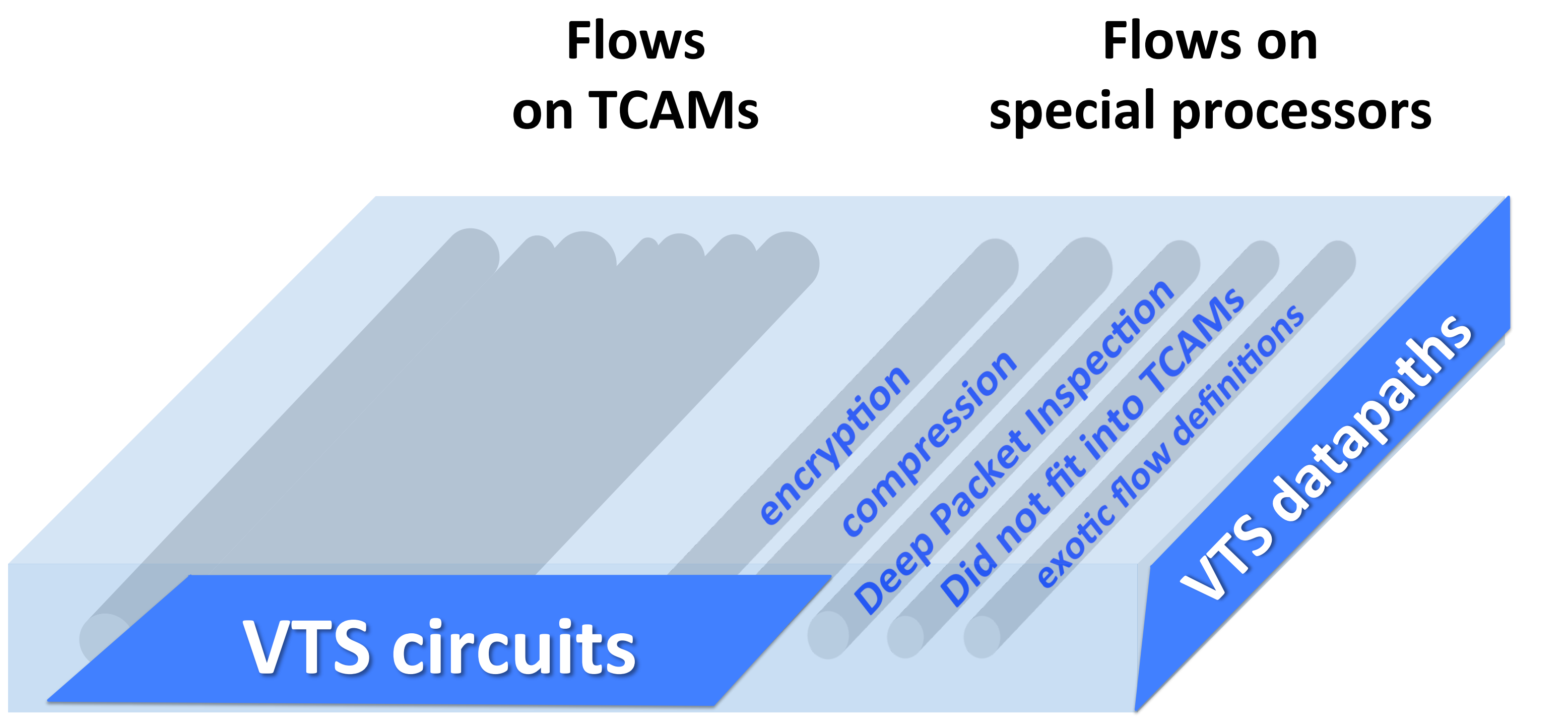


Virtual Topology Services

- Abstract per flow network function from the network engineer
- On-demand circuit per flow passing through a network function
- Flexible network function programming through VTS' datapath service

Middleboxes

- Deployment of vendor-specific features on network devices
- Configuration is not per flow
- Instantiation is a one-time setup
- Function and capability are always vendor-defined



- InstaGENI Local Circuit
- ExoGENI StitchPort Circuit
- VTS WAN Circuit
- VTS Internal Circuit
- NF control plane

