

The background of the entire page is a dark grey circuit board pattern with white lines representing traces and components. In the top-left corner, there is a circular component resembling a dial or a gauge with a needle. The overall aesthetic is technical and digital.

nic.br

Núcleo de Informação
e Coordenação do
Ponto BR

egi.br

Comitê Gestor da
Internet no Brasil

registro.br cert.br cetic.br ceptro.br ceweb.br ix.br

membros e ex-membros do CGI.br
(somente os atuais membros têm direito a voto) ➔

ASSEMBLEIA GERAL

7 membros eleitos pela Assembleia Geral ➔

**CONSELHO DE
ADMINISTRAÇÃO**

**CONSELHO
FISCAL**

ADMINISTRAÇÃO
.....
JURÍDICO
.....
COMUNICAÇÃO
.....
ASSESSORIAS:
CGI.br e PRESIDÊNCIA

**DIRETORIA
EXECUTIVA**

1 2 3 4 5

registro.br

Domínios

cert.br

Segurança

cetic.br

Indicadores

ceptro.br

Redes e Operações

ceweb.br

Tecnologias Web

ix.br

Troca de Tráfego

W3C
Brasil

Padrões Web

- 1 Diretor presidente
- 2 Diretor administrativo e financeiro
- 3 Diretor de serviços e de tecnologia
- 4 Diretor de projetos especiais e de desenvolvimento
- 5 Diretor de assessoria às atividades do CGI.br

nic.br egi.br

ix.br

IX Fórum Regional - Curitiba
Curitiba, PR | 01/07/2022

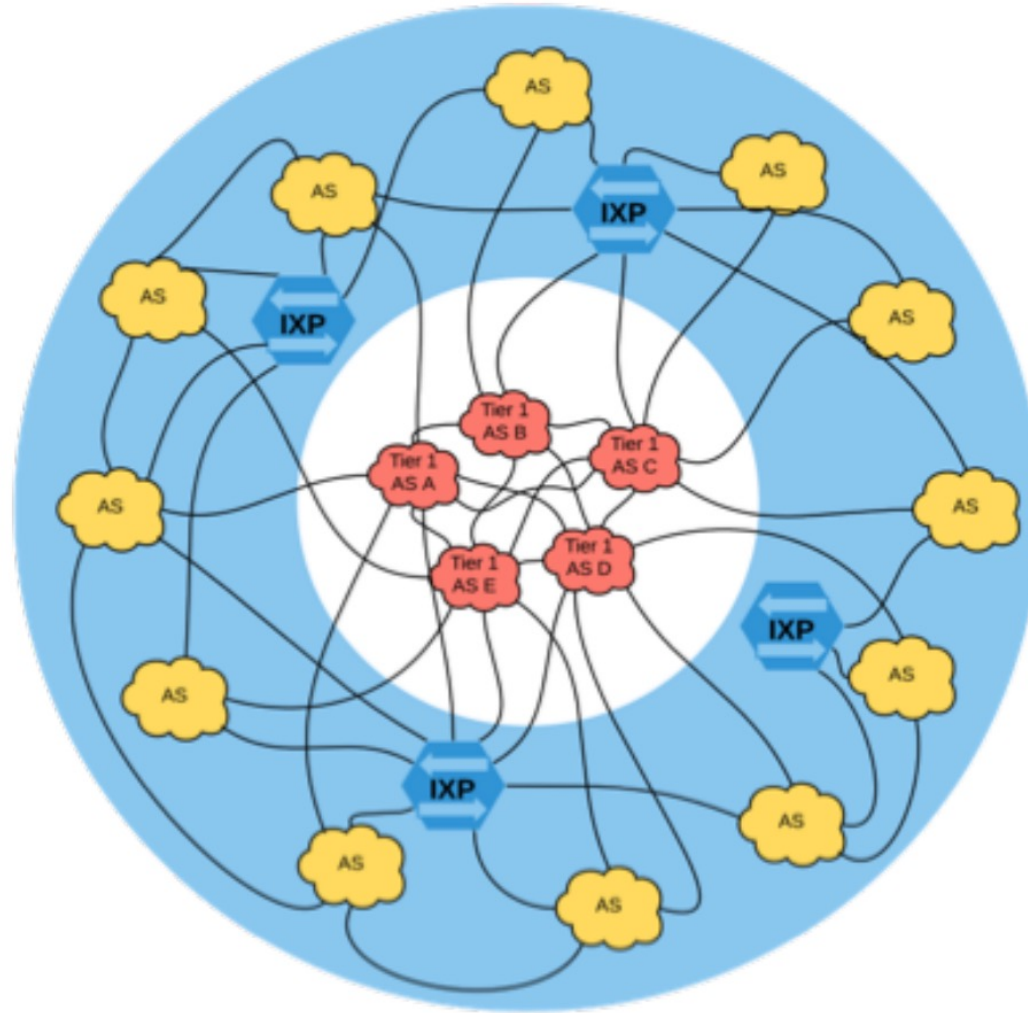
Por que se conectar aos PTTs e atualização sobre a Região Sul

Julio Sirota (jsirota@nic.br)

ix.br nic.br cgi.br

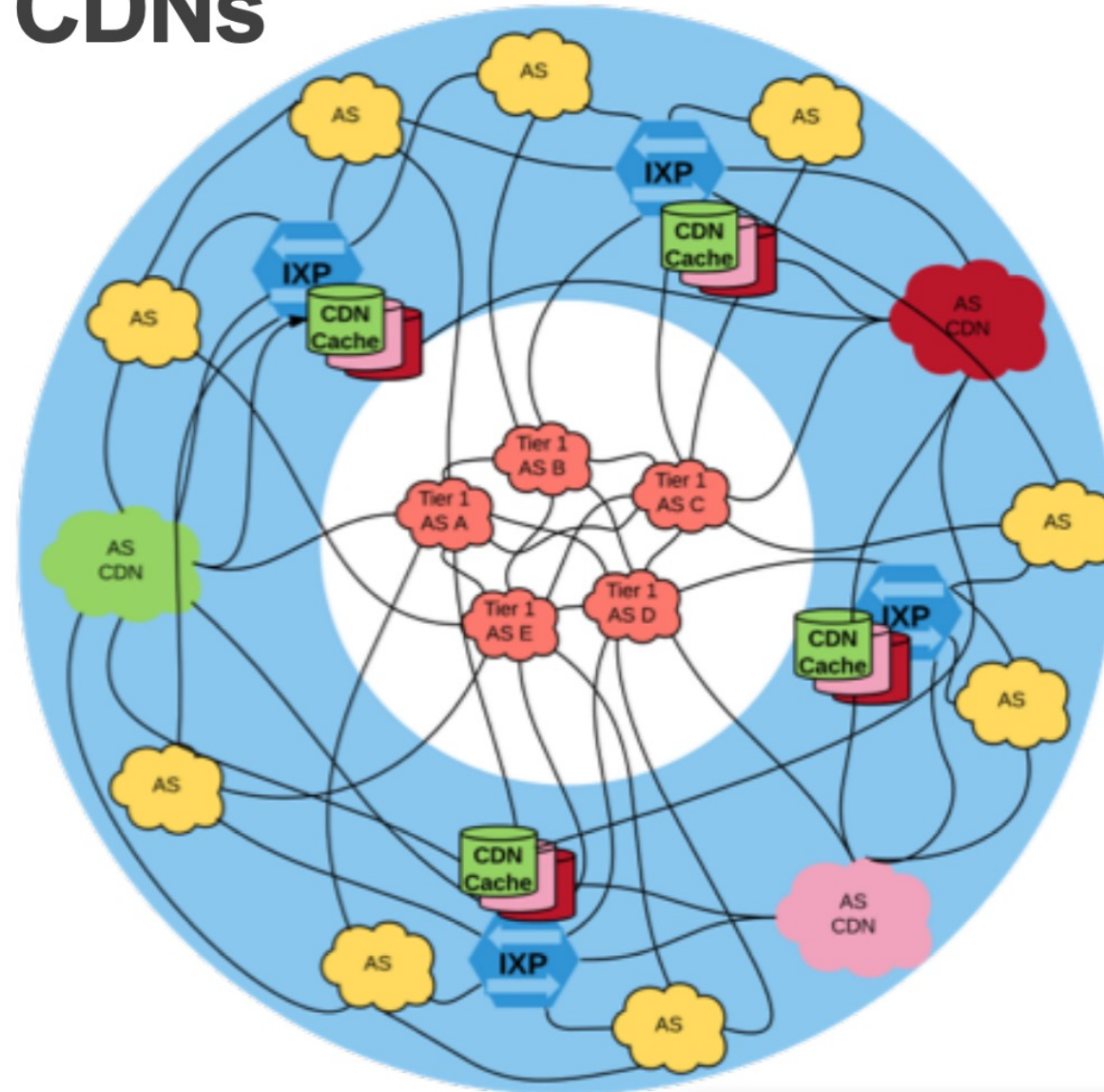
Como a Internet é formada

O papel dos Internet Exchanges

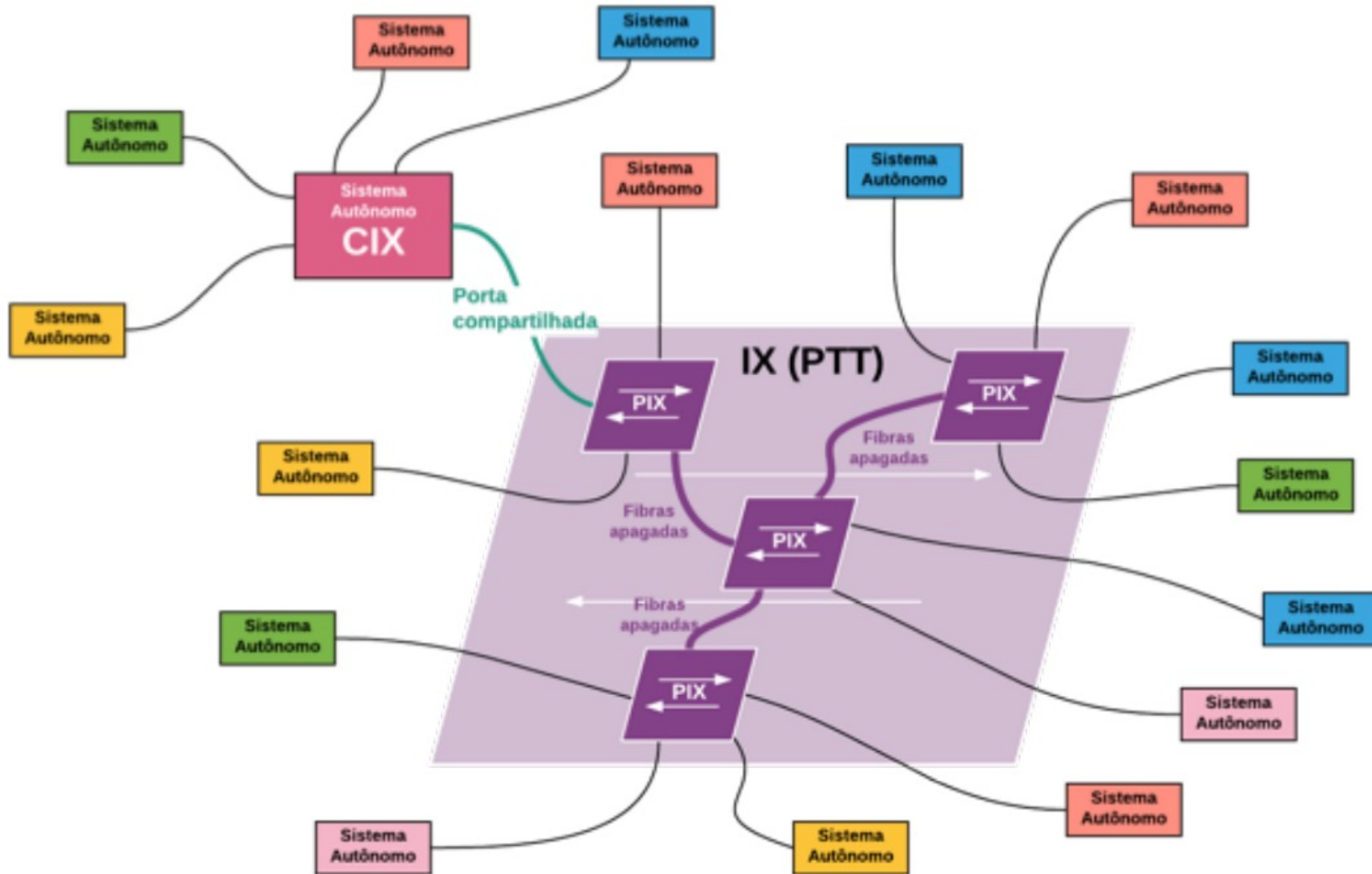


Como a Internet é formada

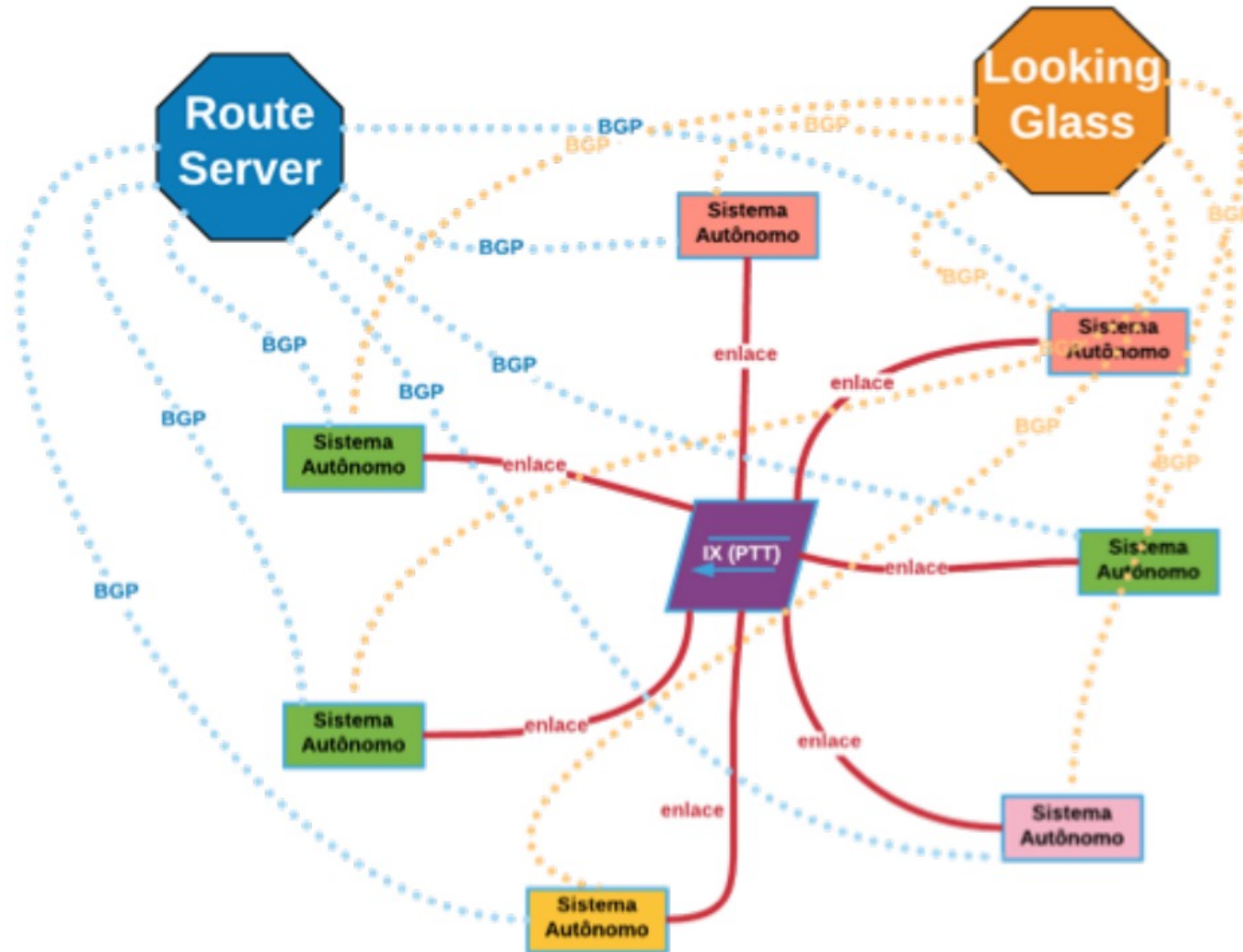
O papel das CDNs



Topologia de um IX



Topologia de um IX



POR QUE ESTAR EM UM PTT?

- Mais qualidade!
- Mais velocidade!
- Melhor experiência do usuário!
- Mais controle sobre o tráfego
- Mais resiliência
- Organização da infraestrutura da Internet
- Menos intermediários
- Menores custos!

- Peering
- Acesso ao tráfego local
- Trânsito IP (compra / venda)
- Transporte
- Acesso às CDNs

Nome	Porto Alegre/RS	Curitiba/PR	Florianópolis/SC	Londrina/PR	Maringá/PR	Santa Maria/RS	Cascavel/PR	Foz do Iguaçu/PR	Caxias do Sul/RS	Lajeado/RS
Google										
Netflix	Netflix									
Facebook										
Akamai	Akamai	Akamai								
Microsoft										
Globo.com	Globo.com	Globo.com	Globo.com	Globo.com						
Amazon										
Azion										
CacheFly										
CDNetworks										
CentralServer										
Cloudflare	Cloudflare	Cloudflare								
Edgecast										
Fastly		Fastly								
GoCache		GoCache								
LinkedIn										
RiotGames										
SingularCDN	SingularCDN		SingularCDN							
Softlayer										
Twitch	Twitch									
Twitter										
UPX										
Yahoo										
Qwilt (TIM)										
Edgeuno	Edgeuno	Edgeuno								
Alibaba_Cloud_CDN_CDN_CDN										
CDNetworks										
CDN77										
TOTAL	7	6	2	1	0	0	0	0	0	0

Nome	São Paulo/SP	Rio de Janeiro/RJ	Fortaleza/CE	Porto Alegre/RS	Curitiba/PR	Salvador/BA	Manaus/AM	Brasilia/DF	Belém/PA	Belo Horizonte/BH	Cuiabá/MT	Recife/PE
Google	Google	Google	Google			OpenCDN	OpenCDN	aguardando				
Netflix	Netflix	Netflix	Netflix	Netflix		OpenCDN	OpenCDN	OpenCDN				
Facebook	Facebook	Facebook	Facebook									
Akamai	Akamai	Akamai	Akamai	Akamai	Akamai	OpenCDN	**	Akamai				
Microsoft	Microsoft	Microsoft										
Globo.com	Globo.com	Globo.com	Globo.com	Globo.com	Globo.com	OpenCDN	OpenCDN	Globo.com	Globo.com	Globo.com	Globo.com	Globo.com
Amazon	Amazon	Amazon										
Azion	Azion	Azion	Azion			OpenCDN	**					
CacheFly	CacheFly											
CDNetworks	CDNetworks											
CentralServer	CentralServer											
Cloudflare	Cloudflare	Cloudflare	Cloudflare	Cloudflare	Cloudflare	Cloudflare	**	**				
Edgecast	Edgecast	Edgecast	Edgecast									
Fastly	Fastly	Fastly	Fastly		Fastly							
GoCache	GoCache	GoCache	GoCache		GoCache			GoCache				
LinkedIn												
RiotGames	RiotGames											
SingularCDN	SingularCDN	SingularCDN	SingularCDN	SingularCDN			SingularCDN		SingularCDN		SingularCDN	SingularCDN
Softlayer	Softlayer											
Twitch	Twitch	Twitch	Twitch	Twitch				Twitch				
Twitter	Twitter											
UPX	UPX	UPX	UPX			UPX		UPX				
Yahoo	Yahoo	Yahoo	Yahoo									
Qwilt (TIM)												
Edgeuno	Edgeuno	Edgeuno	Edgeuno	Edgeuno	Edgeuno			Edgeuno				
Alibaba_Cloud_CDN_	Alibaba_Cloud_CDN_	Alibaba_Cloud_CDN_										
CDNetworks	CDNetworks											
CDN77	CDN77											
TOTAL	28	18	15	7	6	2	1	6	2	1	2	2

Melhorias na tabela de participantes das localidades

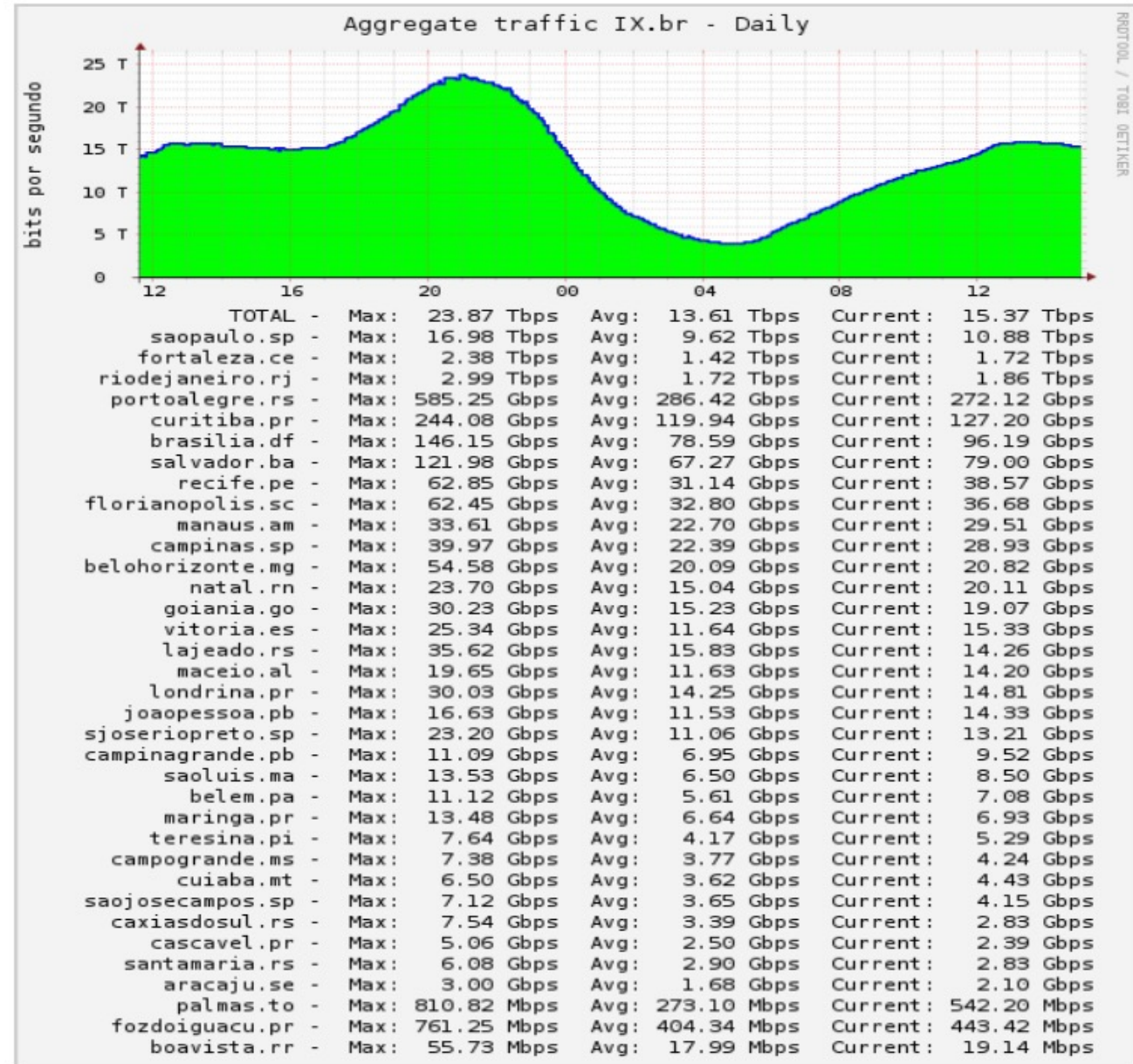
IX.br - Curitiba - 185 Participantes								
ASN	Nome	ATM		Trânsito		Transporte		Tipo
		V4	V6	V4	V6	L2	CIX	
1916	RNP	✓	✓					EDU
3356	CENTURYLINK			✓	✓			ISP
3549	CenturyLink							
4809	ChinaTelecomdoBrasil	✓	✓			✓		ISP
7048	FLIN	✓	✓					ISP
7195	Edgeuno	✓	✓	✓	✓			CDN
10412	RPR	✓	✓					
10881	PoP-PR	✓	✓					
11644	d.dns.br anycast - Nic.br	✓	✓					
11835	NovaFibra Telecom	✓	✓					CNT
12140	ONDA	✓						
13335	Cloudflare	✓	✓					
13357	IOL	✓	✓					
13522	PUCPR	✓						
13786	Seaborn	✓	✓	✓	✓	✓		ISP
14026	Simet	✓	✓					
14282	PersisTelecom	✓	✓			✓		ISP
14650	f.dns.br anycast - Nic.br	✓	✓					
14840	BR.DIGITAL	✓	✓	✓	✓	✓	✓	ISP
14868	LIGGA TELECOM	✓	✓					ISP
16735	ALGAR TELECOM S/A	✓	✓			✓		ISP
19723	CELEPAR	✓	✓					
19990	ZETANET	✓	✓					
20144	L-Root - ICANN	✓	✓					
20940	Akamai	✓						CDN
21574	Century	✓	✓					
22356	Durand	✓	✓			✓		CNT
25933	Vogel Telecom	✓	✓					
28130	Certto_Telecom	✓	✓			✓		ISP
28145	RLINE	✓	✓					

IX.br – 35 localidades

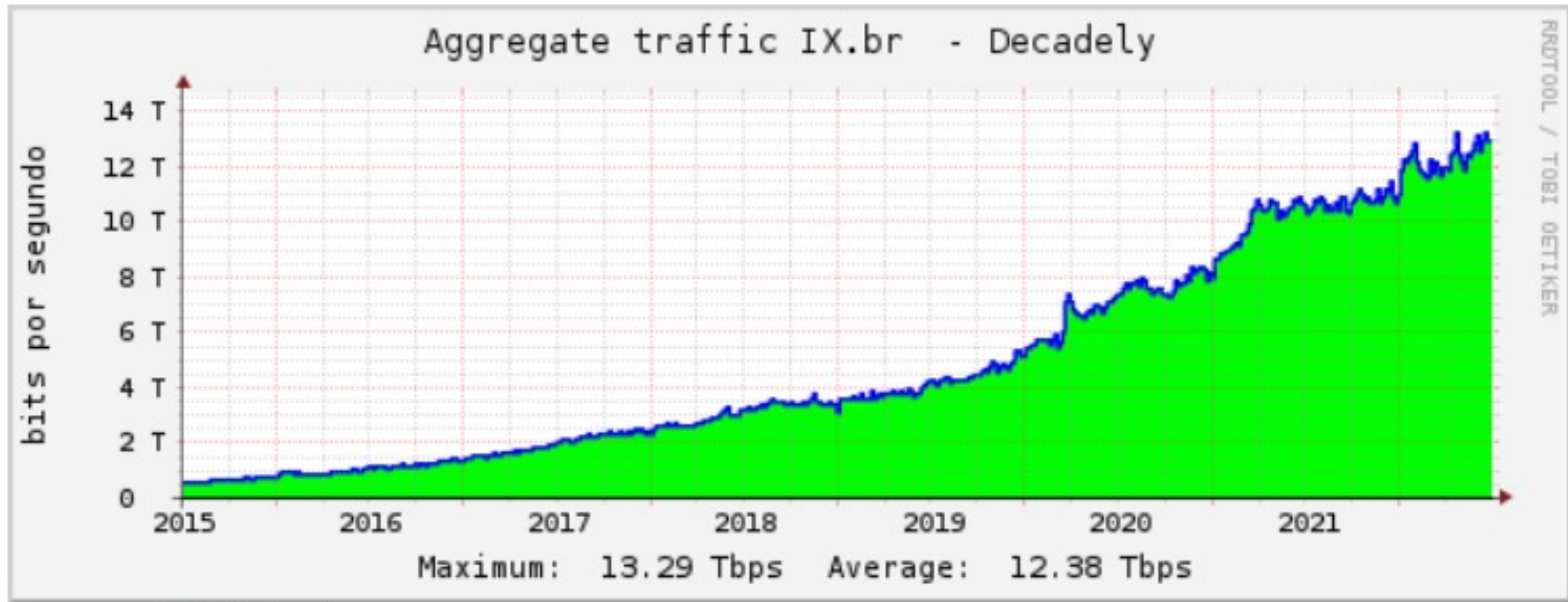
Brasil tem cerca de 9.500 ASNs

3.450 ASNs participam do IX.br

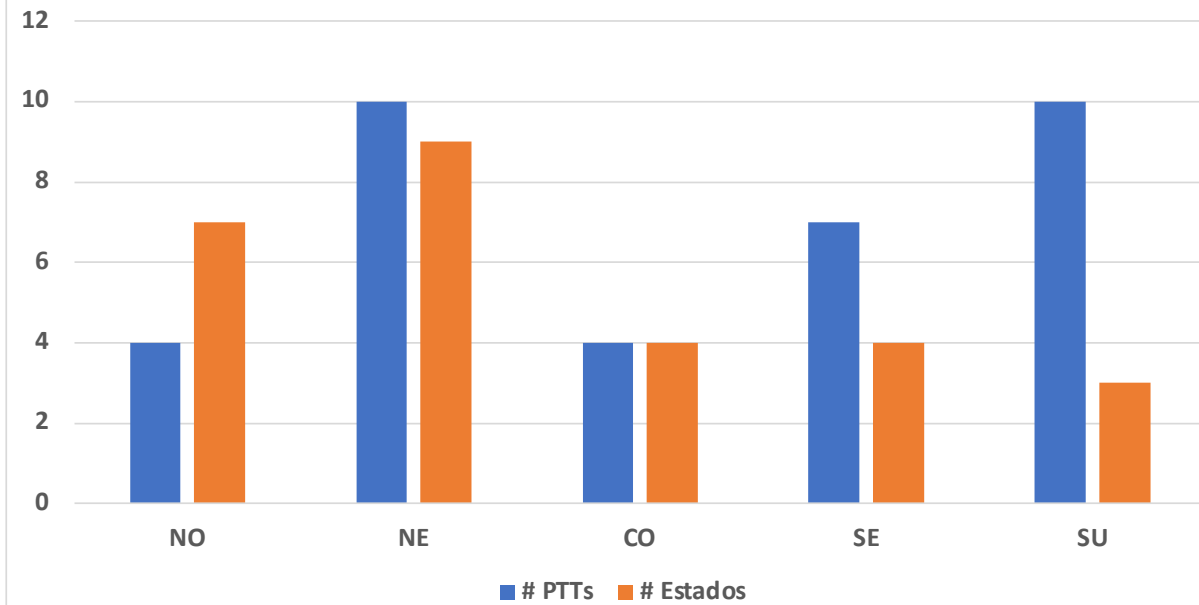
5.431 conexões



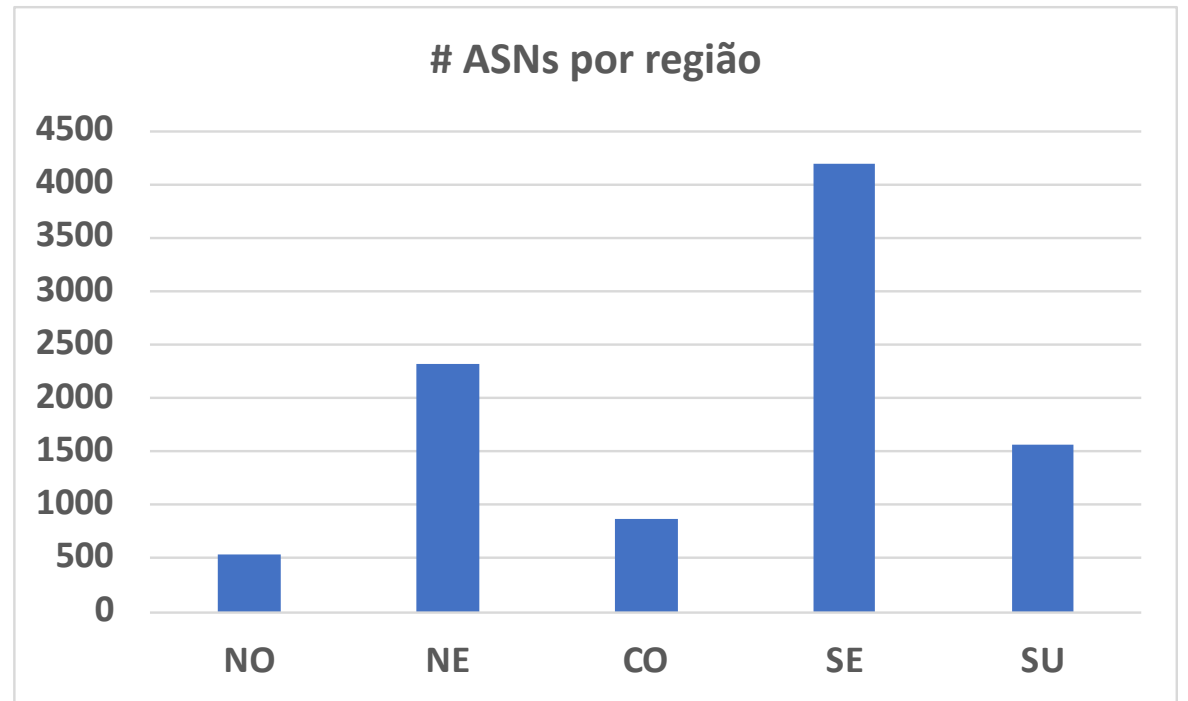
IX.br – 35 localidades

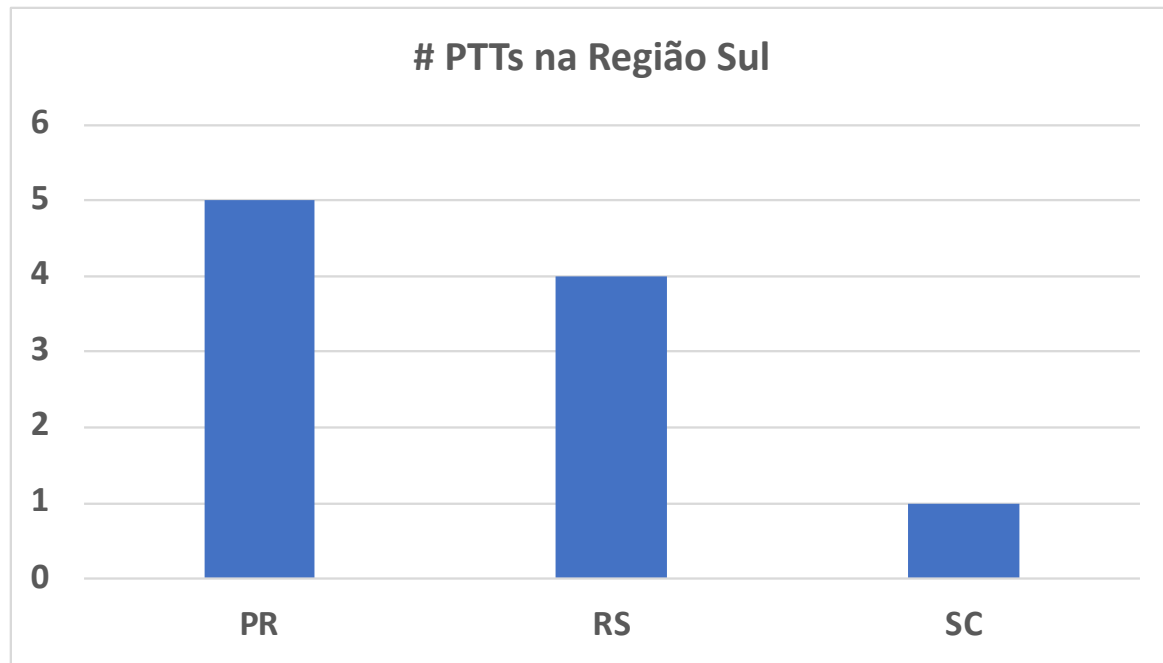


#PTTs por região



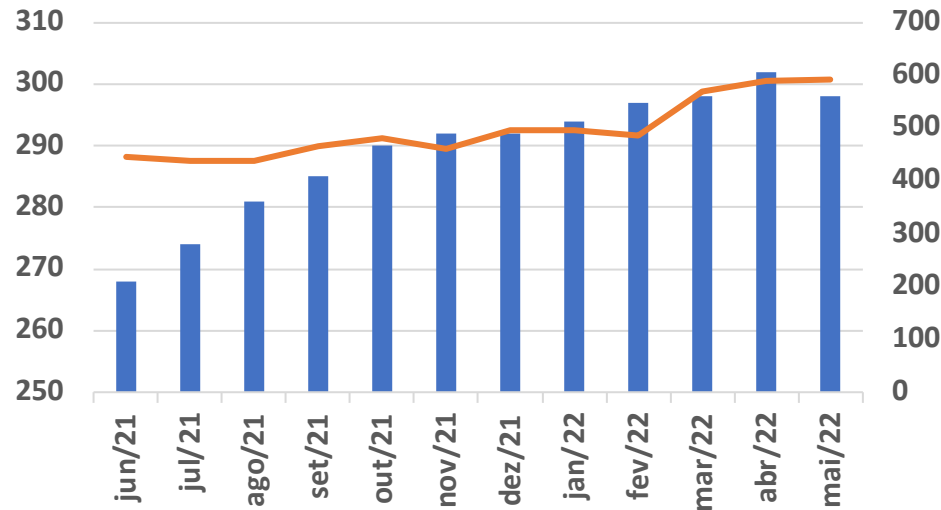
ASNs por região



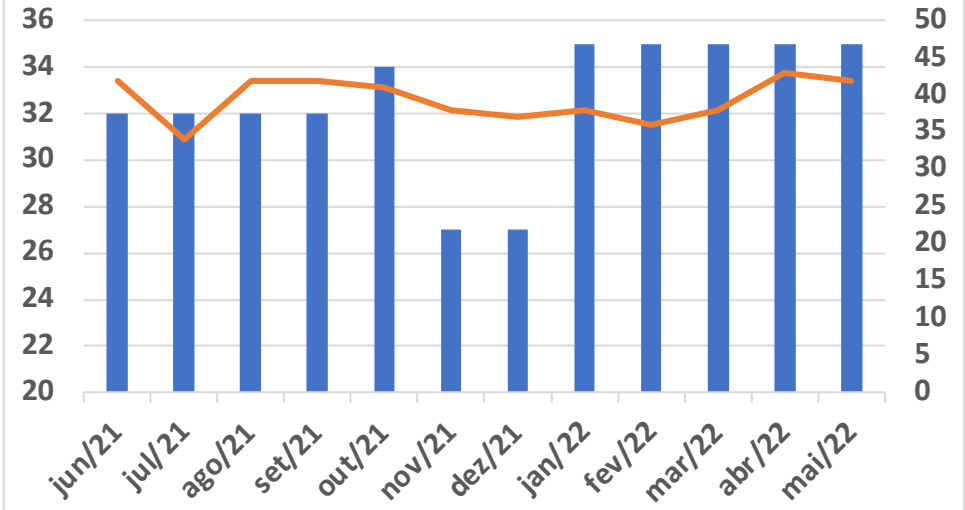


Estado	Cidade	# Partic.	Pico (Gb/s)
PR	Cascavel	40	4,7
	Curitiba	185	243,0
	Foz do Iguaçu	20	0,8
	Londrina	30	31,0
	Maringá	73	11,0
RS	Caxias do Sul	14	5,3
	Lajeado	36	33,0
	Porto Alegre	232	529,0
	Santa Maria	22	5,6
SC	Florianópolis	108	57,0

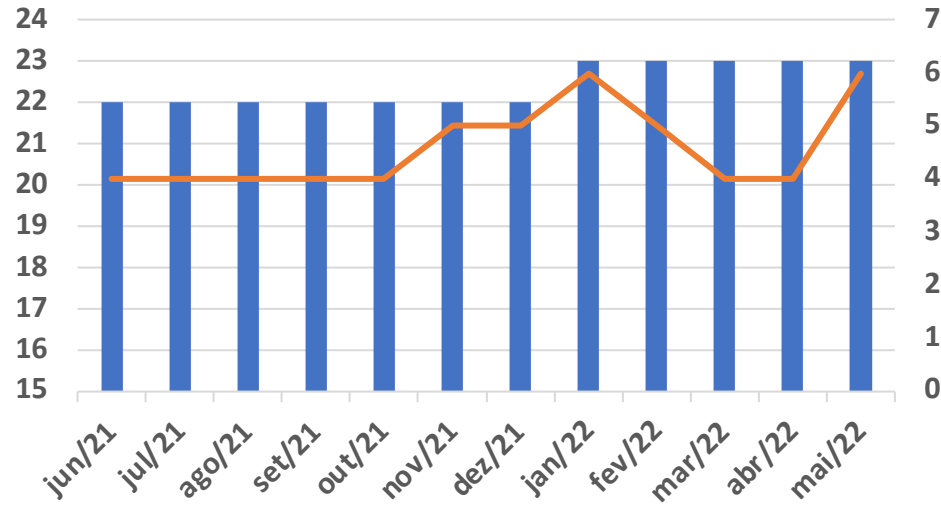
Porto Alegre/RS



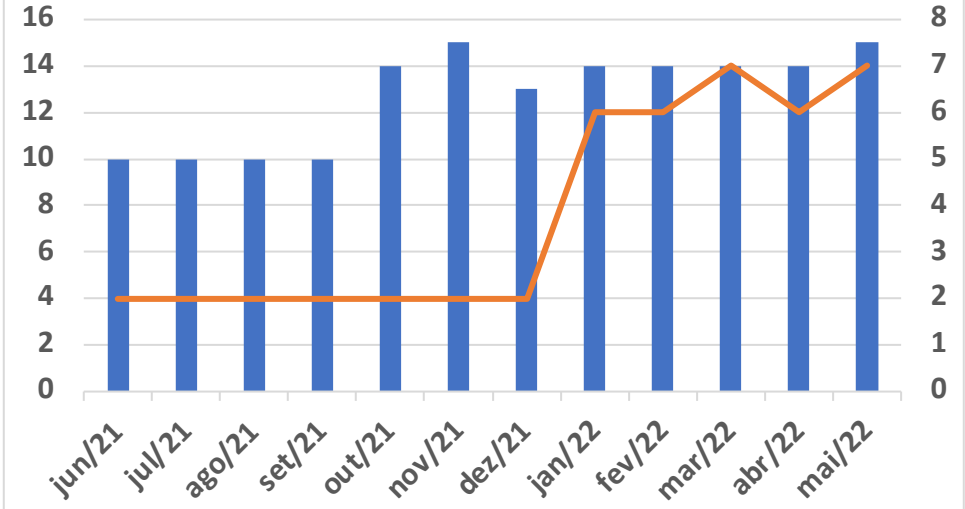
Lajeado/RS



Santa Maria/RS

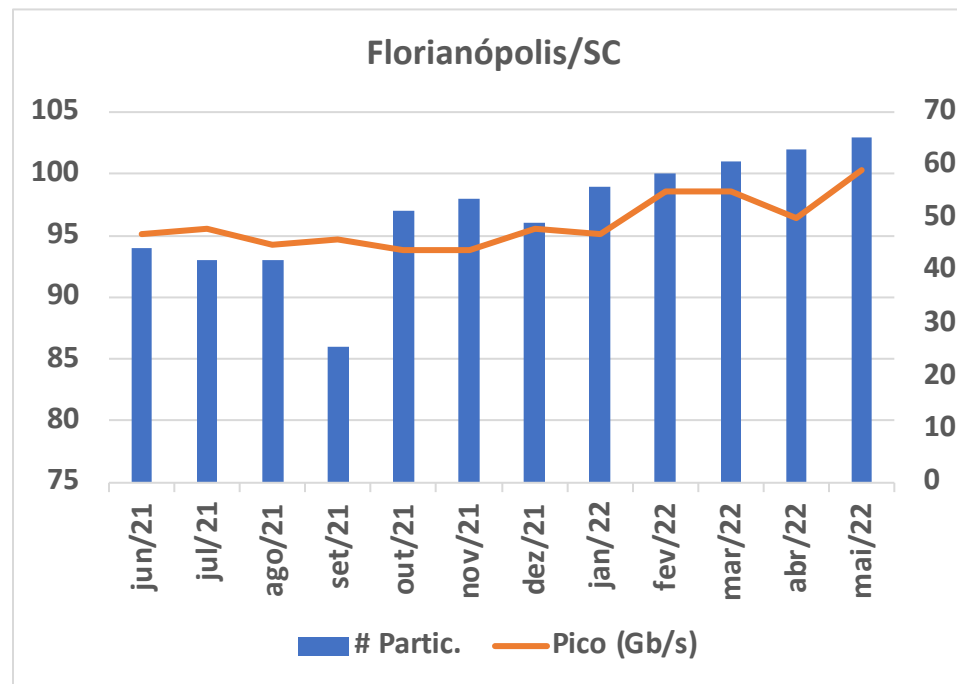


Caxias do Sul/RS

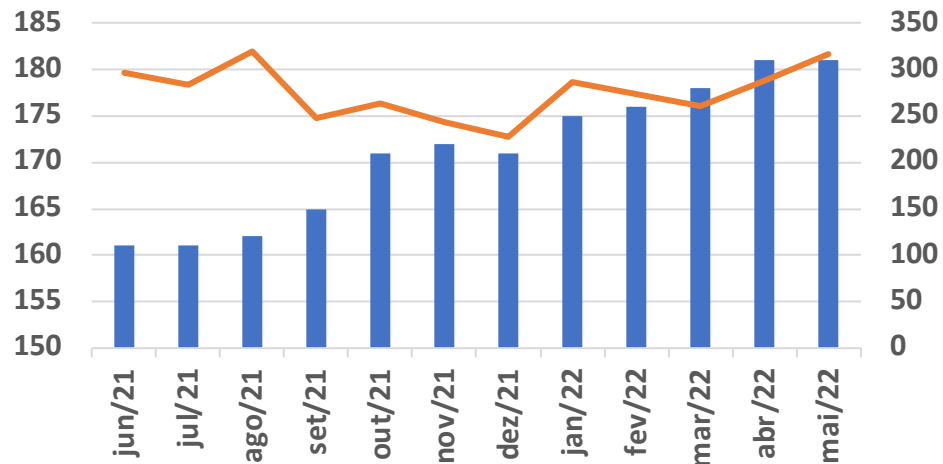


Partic. Pico (Gb/s)

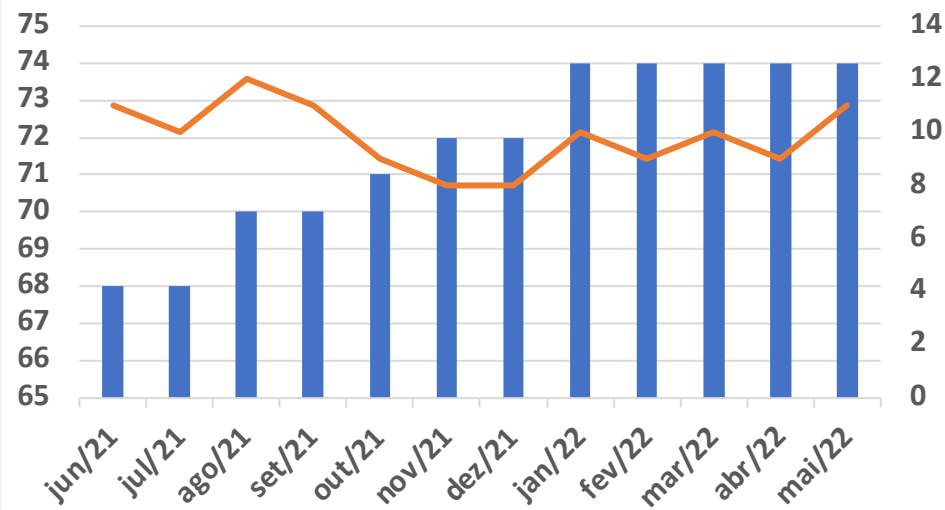
Partic. Pico (Gb/s)



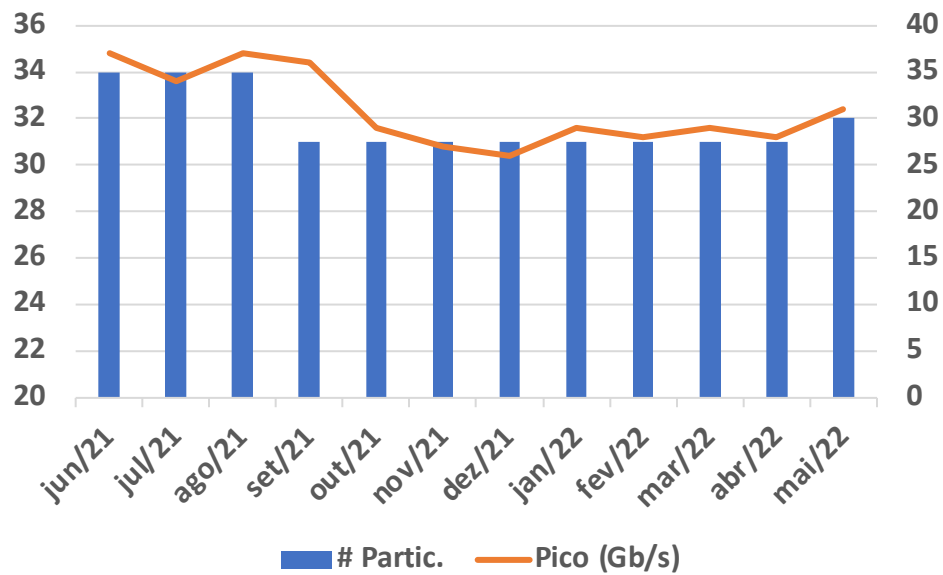
Curitiba/PR



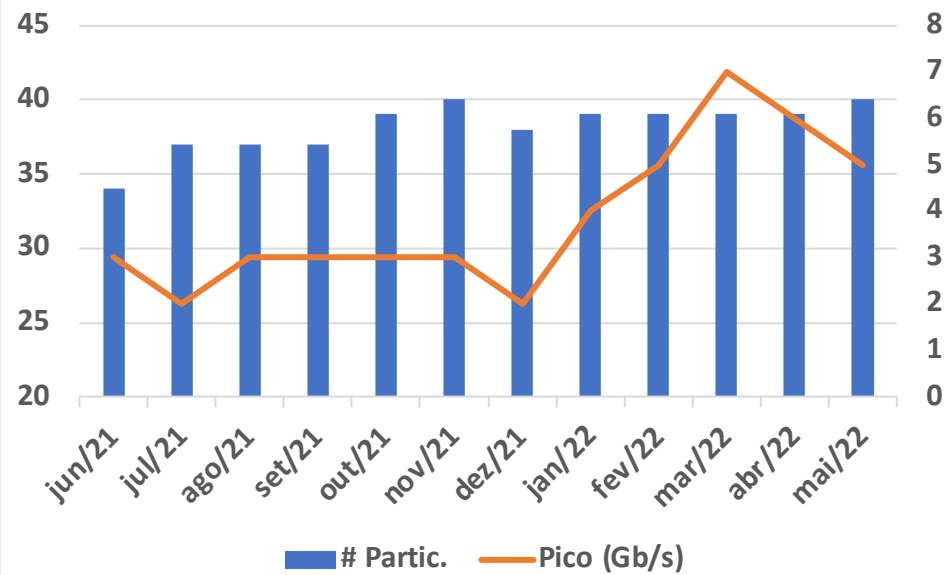
Maringá/PR

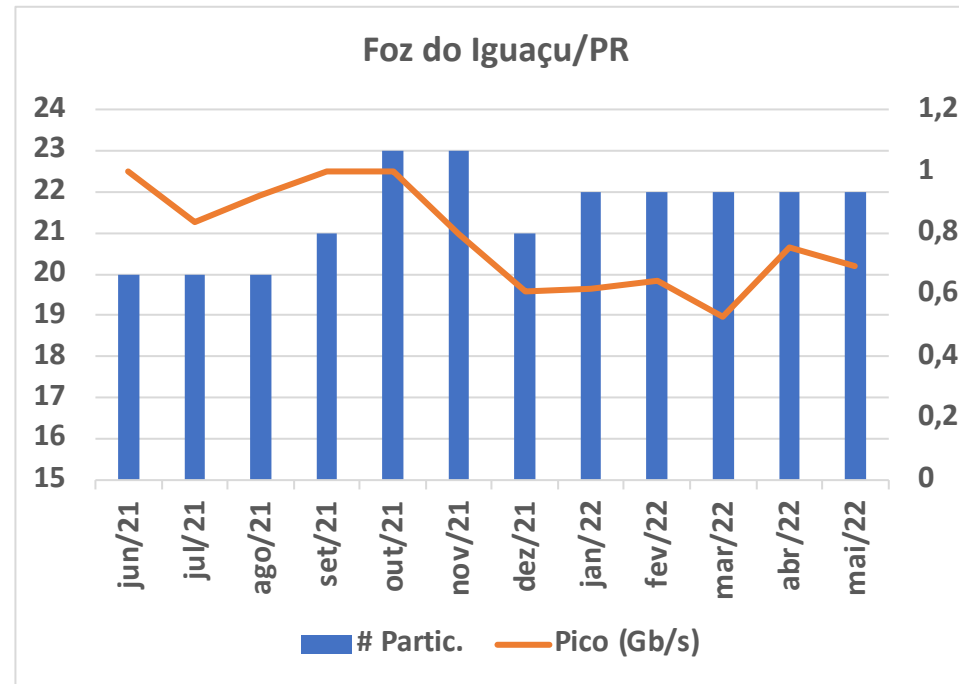


Londrina/PR

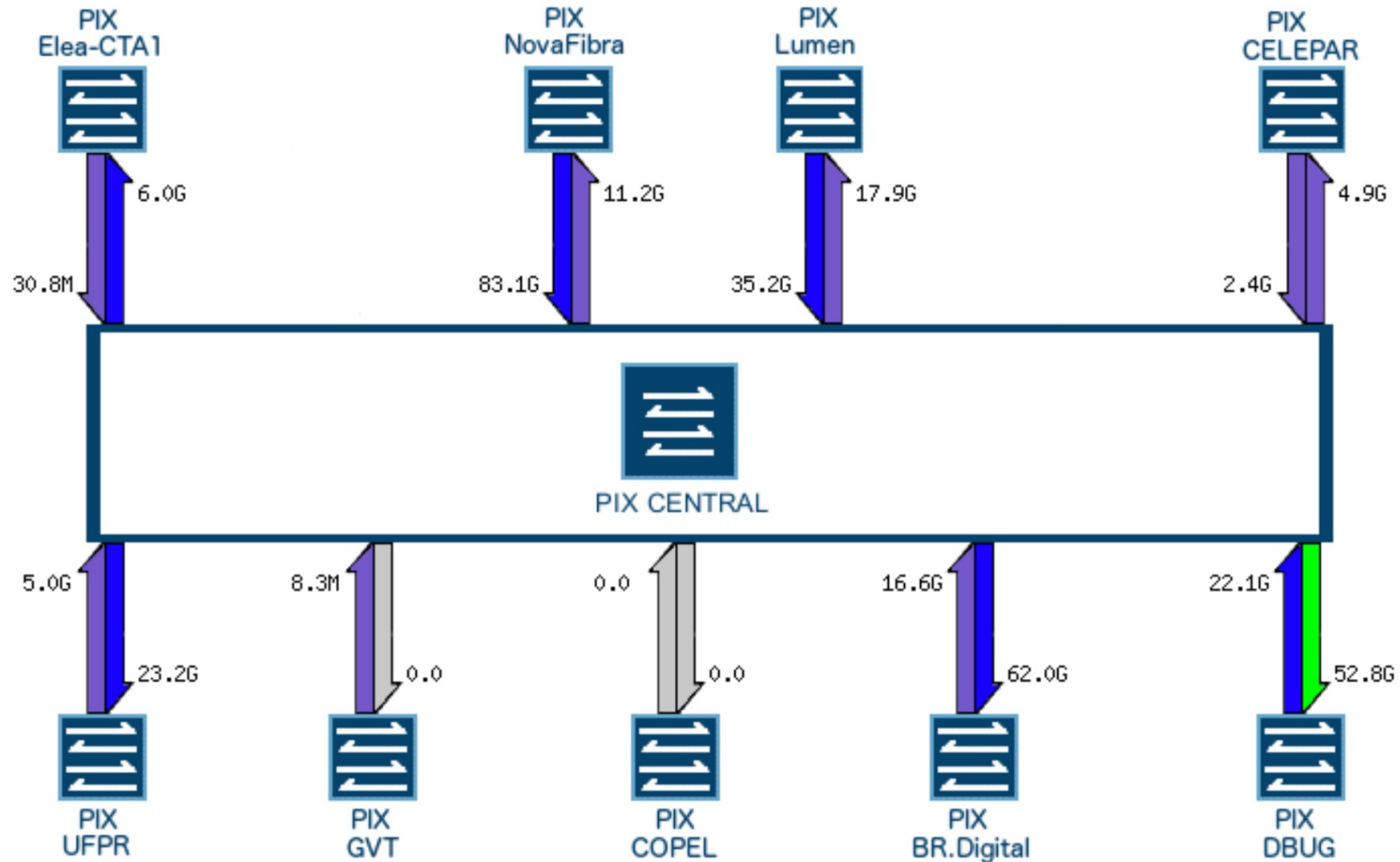


Cascavel/PR





IX.br Curitiba/PR



Obrigado(a)

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01 de julho de 2022

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