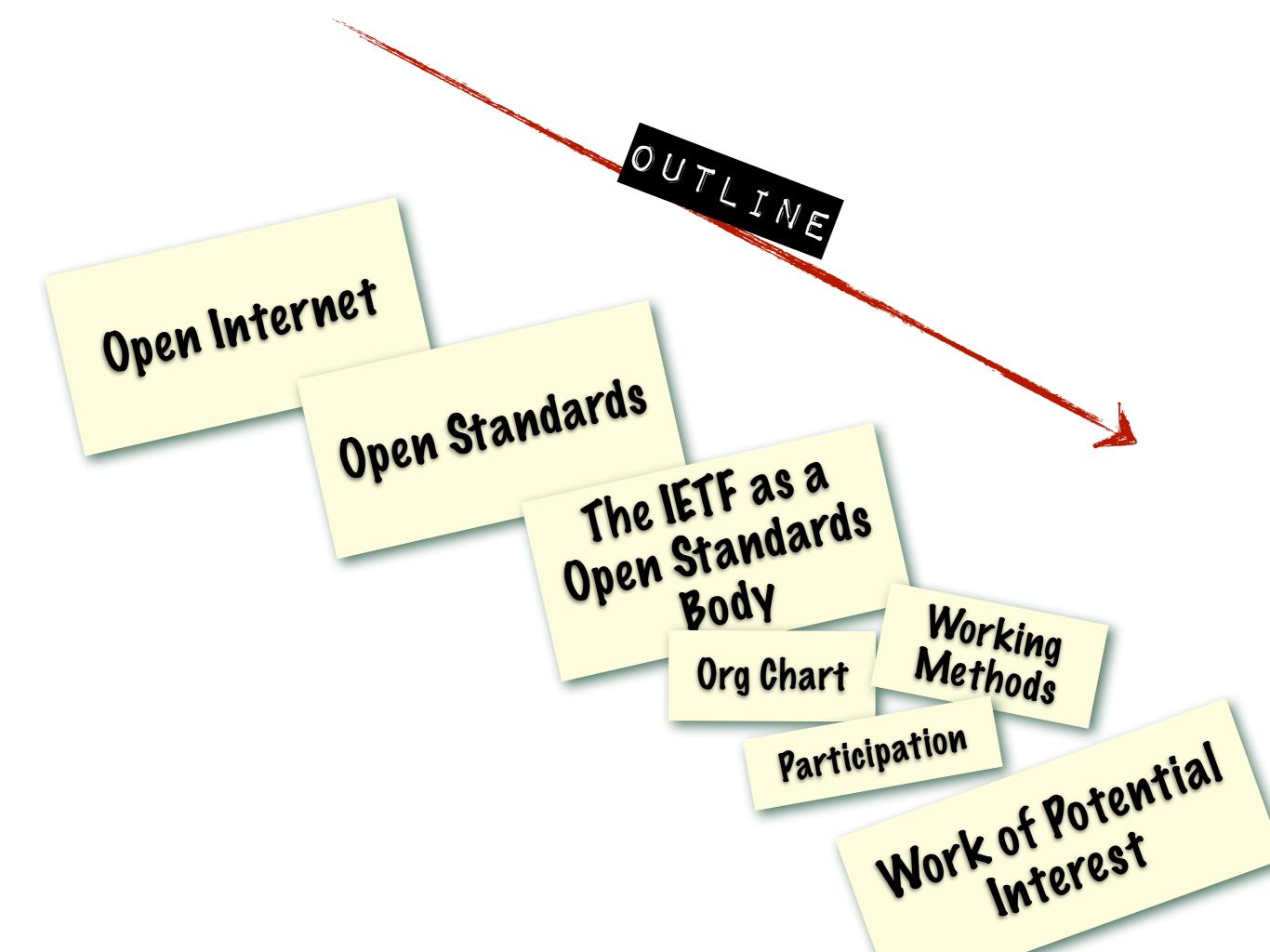
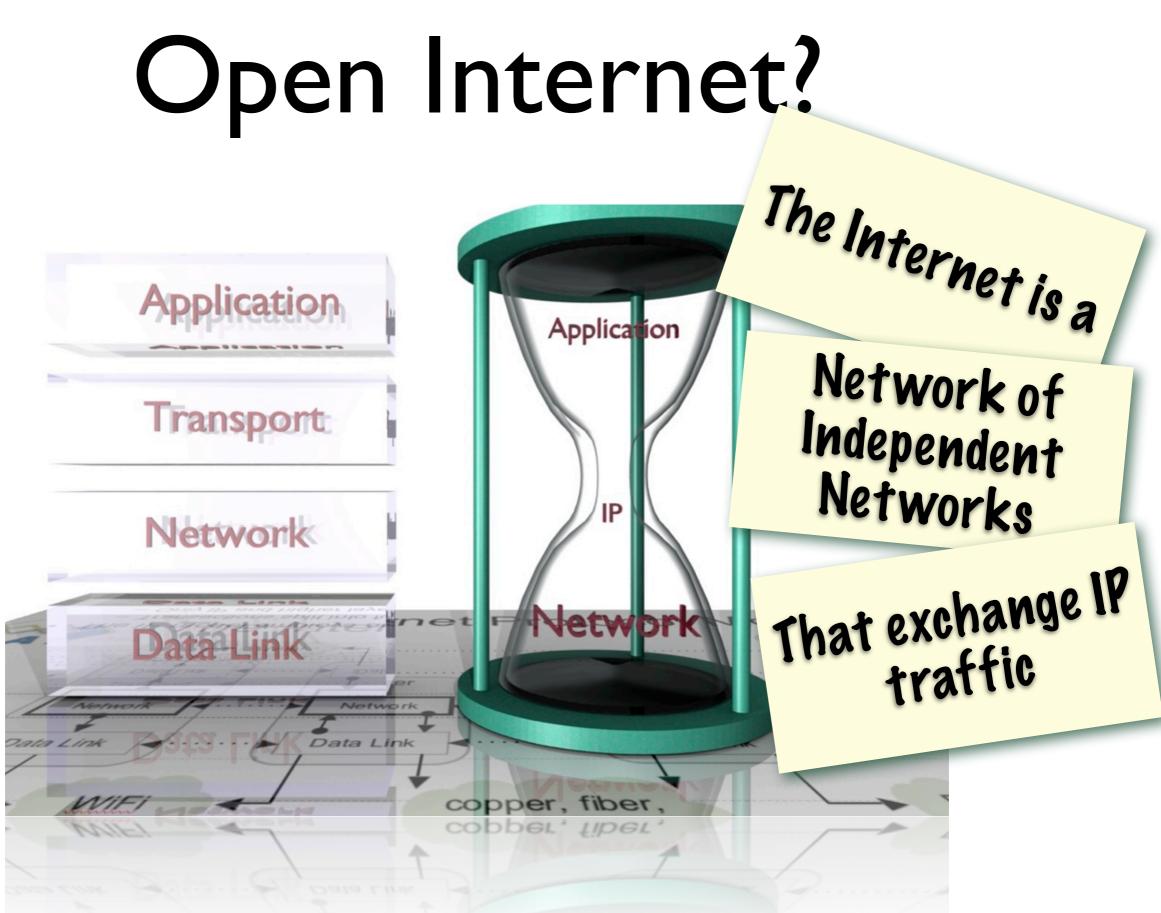


Open Standards for an Open Internet







Picture by: O. Kolkman/NLnet Labs, Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License.



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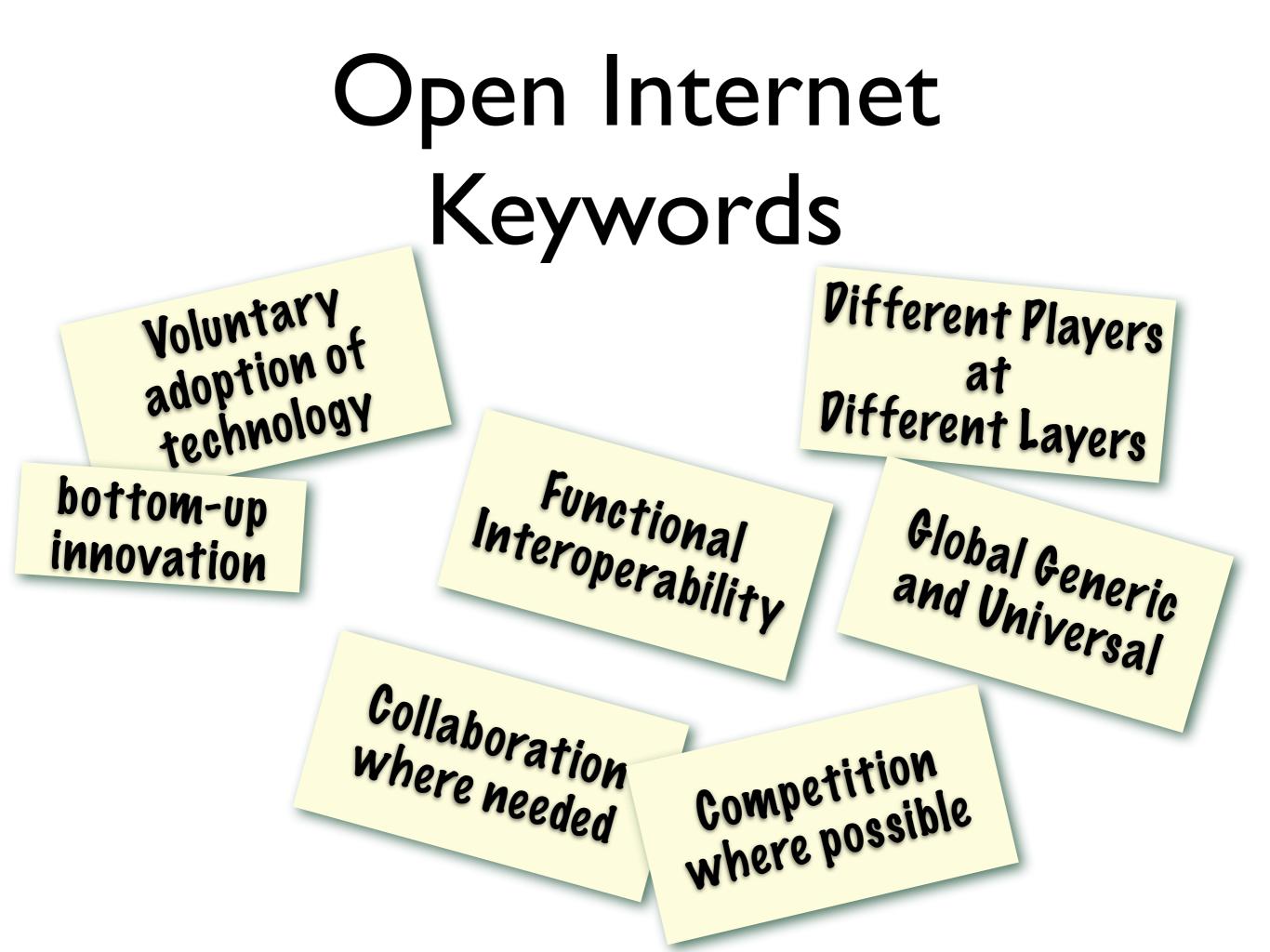
Highly competitive



A EUR80 fiber cross connect:	\$0.01
Internet Exchange traffic:	\$0.25*
Backbone traffic Western Europe:	\$0.50
Transatlantic traffic, wholesale:	\$1
Internet Transit, wholesale:	\$2
Internet Transit, retail:	\$15
Broadband Internet, consumer:	\$50
National Ethernet service:	\$180
3G mobile data, national:	\$11,400
GSM voice call, national:	\$483,840
3G mobile data, roaming low:	\$834,000
3G mobile data, roaming high:	\$3,127,500
GSM voice call, roaming:	\$3,338,496
SMS Text Messages:	\$210,000,000
SMS Text Messages, roaming:	\$1,166,400,000

Western Europe, early-mid 2011 (based on 10Gbps or 300GB)

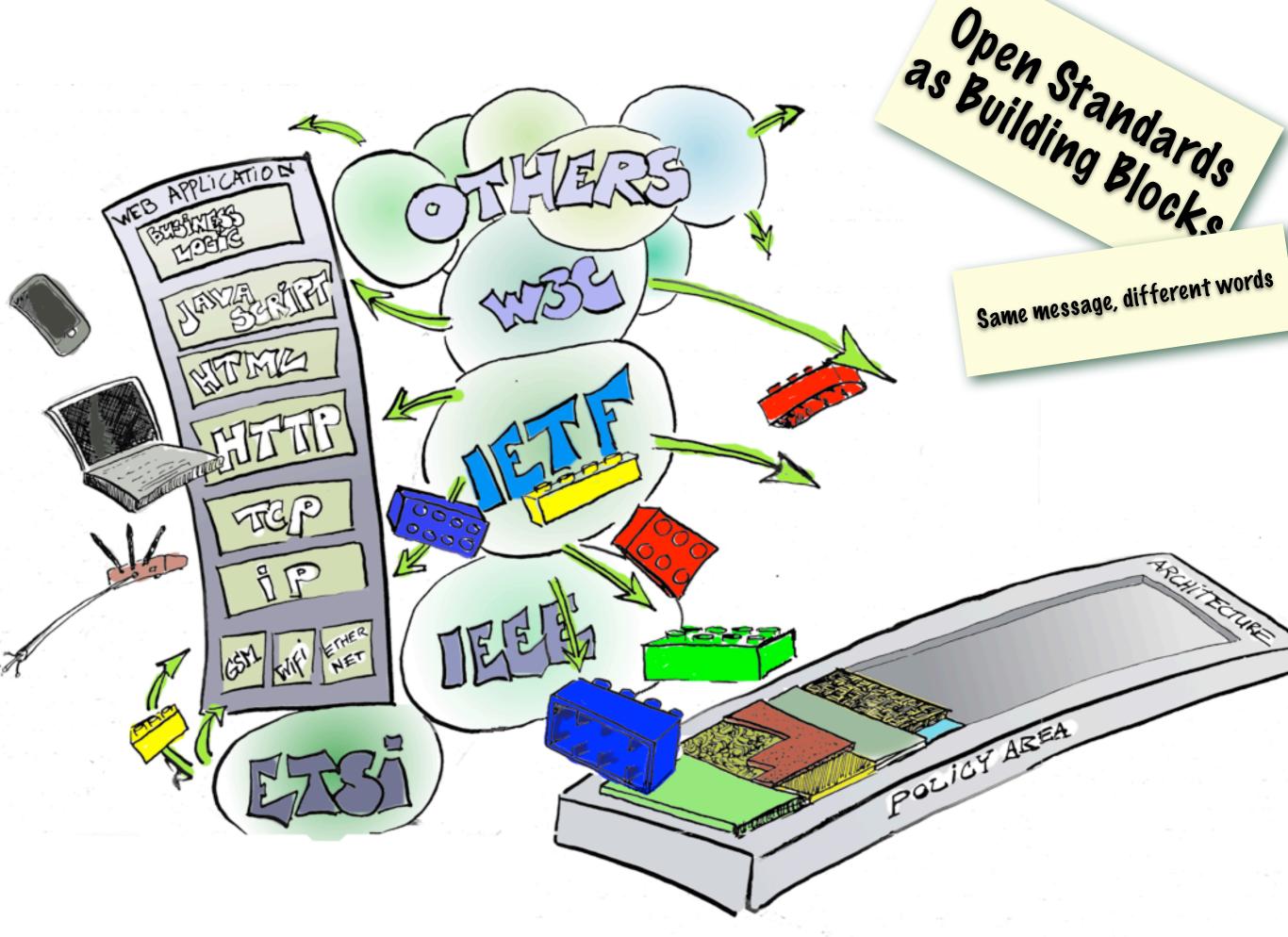
Table courtesy of Remco van Mook, Equinix





	Browsing	The Web	
802,11	IEEE	TCP/IP	IETF
URI	IETF	BGP	IETF
NAT	No Standard	-ITTP	IETF
CSS	W3C	PNG	IETF
HTML	W3C/ISO	MPEG	ISO/IEC
XML	W3C	ADSL	ITU-T

Interoperability



Picture by 'Kloot' used with permission under Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License.



1. Cooperation

Respectful cooperation between standards organizations, whereby each respects the autonomy, integrity, processes, and intellectual property rules of the others.

2. Adherence to Principles

Adherence to the five fundamental principles of standards development:

- **Due process.** Decisions are made with equity and fairness among participants. No one party dominates or guides standards development. Standards processes are transparent and opportunities exist to appeal decisions. Processes for periodic standards review and updating are well defined.
- **Broad consensus.** Processes allow for all views to be considered and addressed, such that agreement can be found across a range of interests.
- Transparency. Standards organizations provide advance public notice of proposed standards development activities, the scope of work to be undertaken, and conditions for participation. Easily accessible records of decisions and the materials used in reaching those decisions are provided. Public comment periods are provided before final standards approval and adoption.
- **Balance.** Standards activities are not exclusively dominated by any particular person, company or interest group.
- Openness. Standards processes are open to all interested and informed parties.

3. Collective Empowerment

Commitment by affirming standards organizations and their participants to collective empowerment by striving for standards that:

- are chosen and defined based on technical merit, as judged by the contributed expertise of each participant;
- provide global interoperability, scalability, stability, and resiliency;
- enable global competition;
- serve as building blocks for further innovation; and
- contribute to the creation of global communities, benefiting humanity.

4. Availability

Standards specifications are made accessible to all for implementation and deployment. Affirming standards organizations have defined procedures to develop specifications that can be implemented under fair terms. Given market diversity, fair terms may vary from royalty-free to fair, reasonable, and non-discriminatory terms (FRAND).

5. Voluntary Adoption

Standards are voluntarily adopted and success is determined by the market.

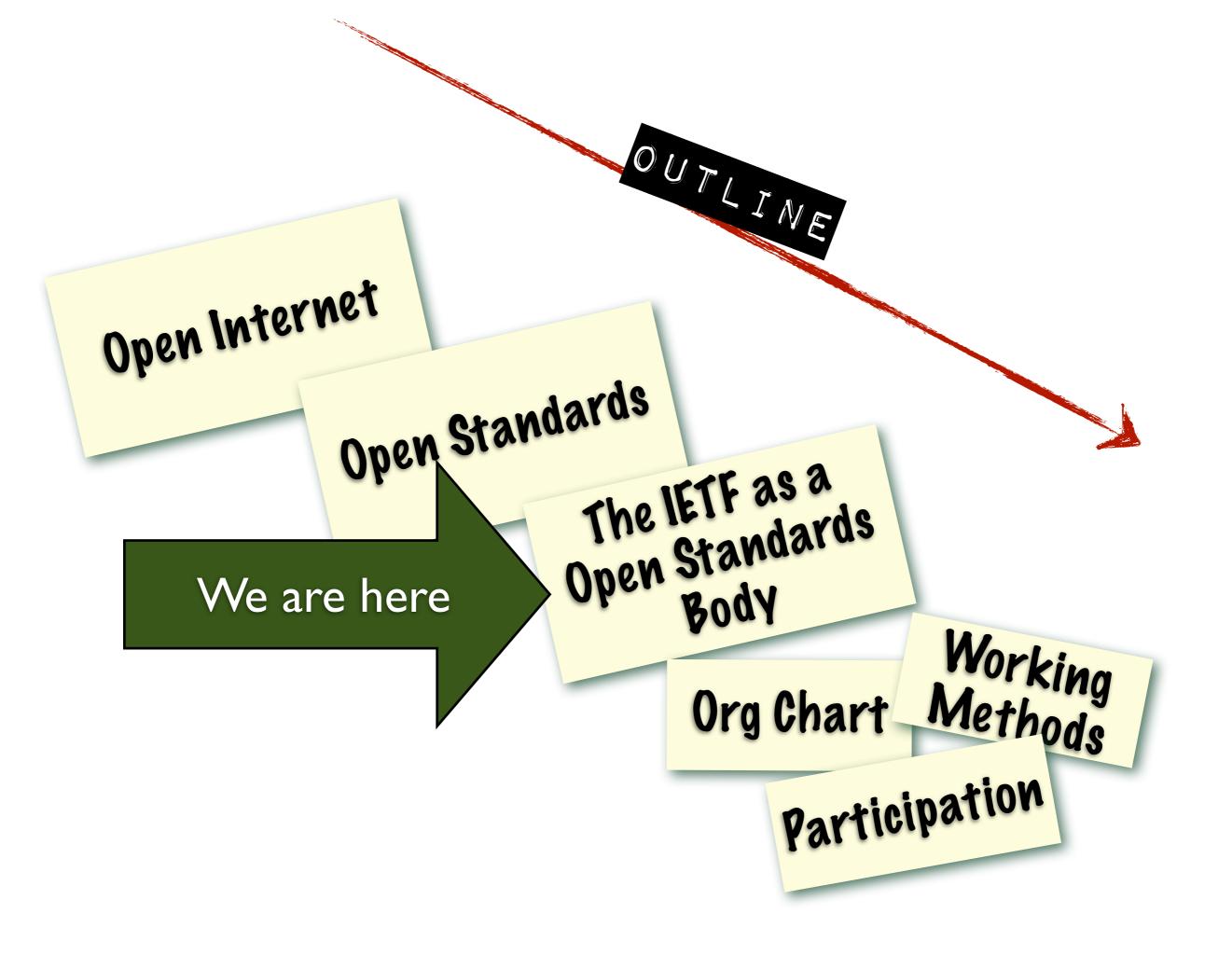
Cooperation

Adherence to Principles

Collective Empowermen

Availability

Voluntary Adoption



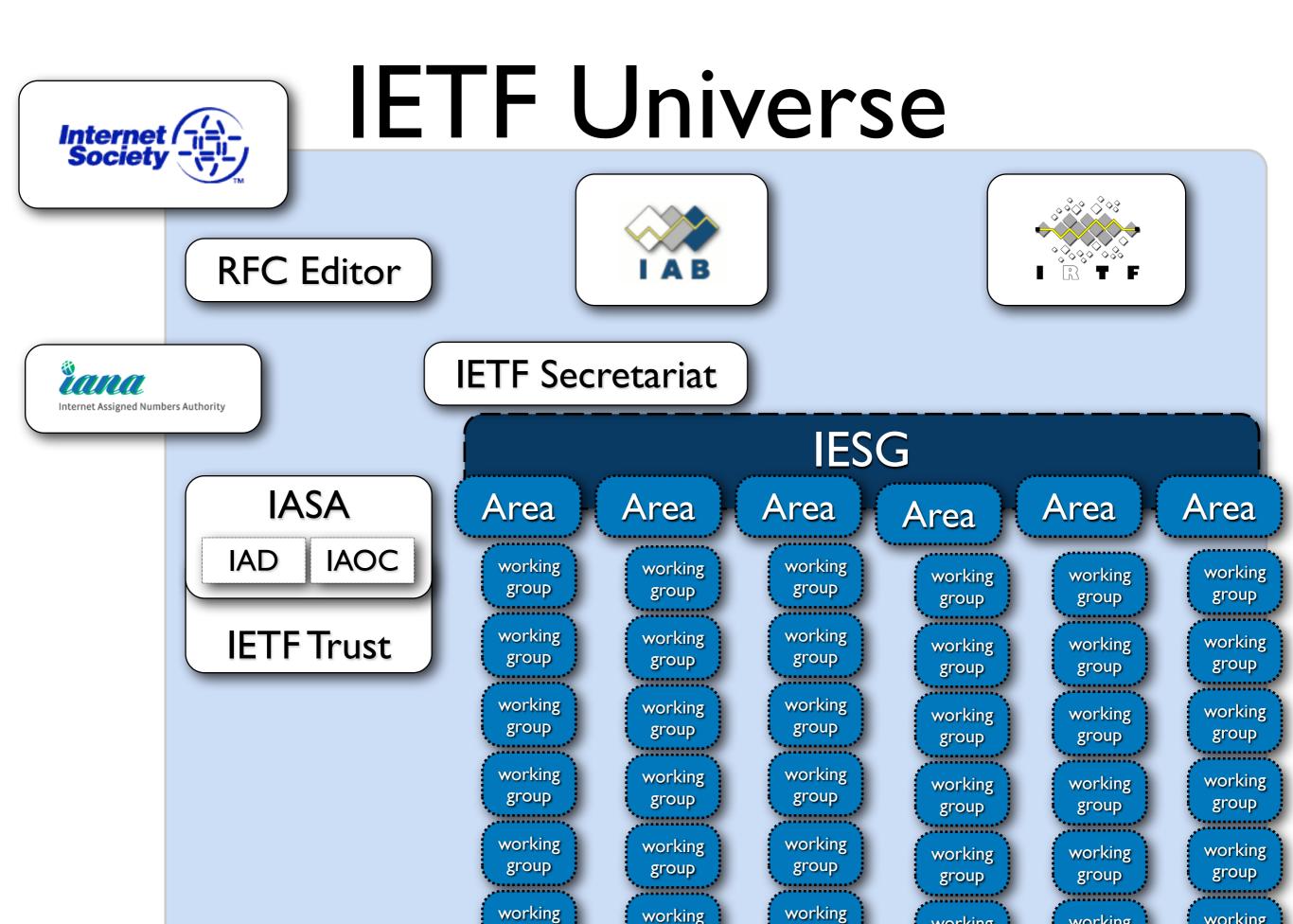


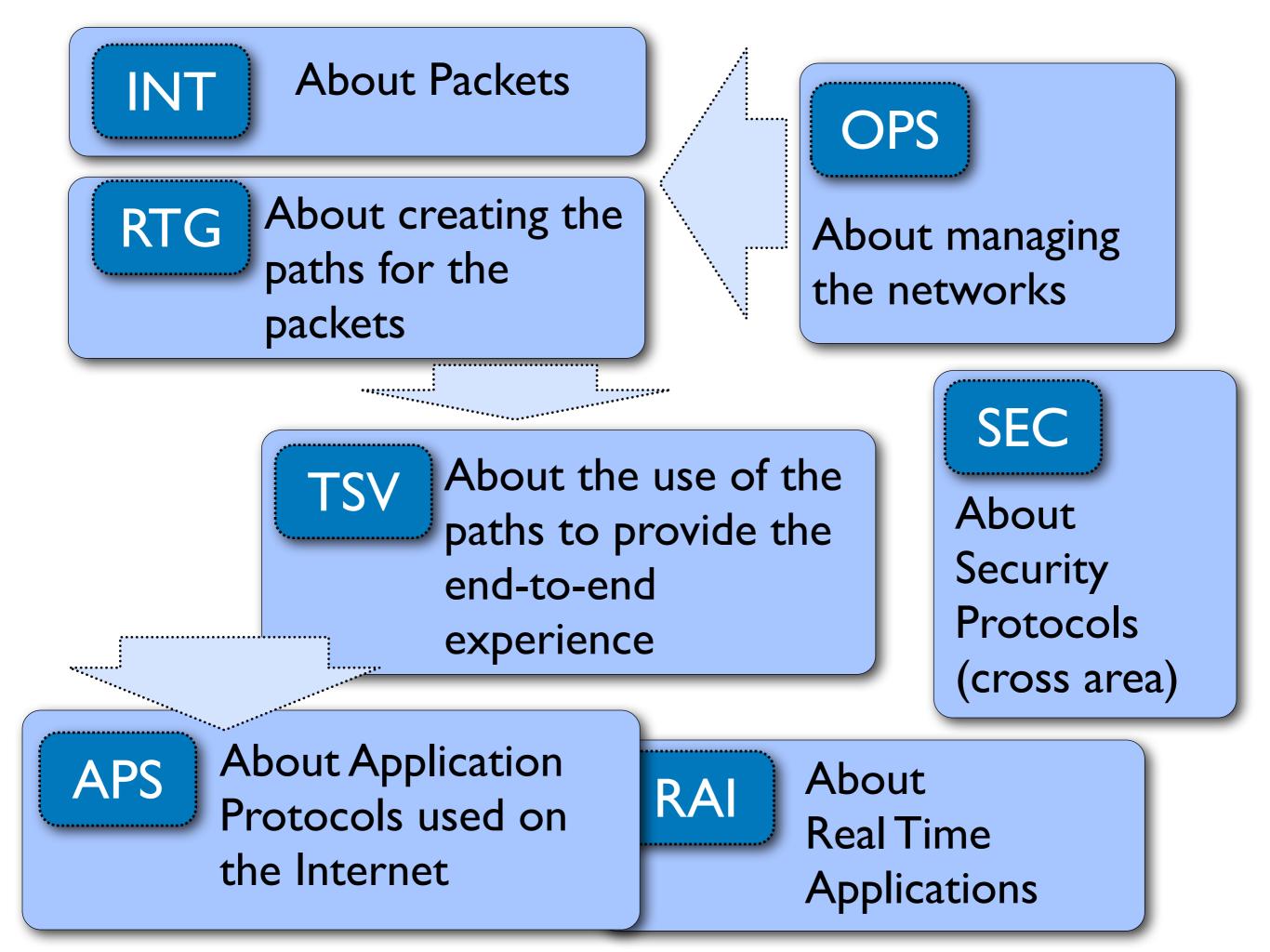
IETF

The Internet Engineering Task Force is a loosely self-organized group of people who contribute to the engineering and evolution of Internet technologies. It is the principal body engaged in the development of new Internet standard specifications. RFC4677



The mission of the IETF is to make the Internet work better by producing high quality, relevant technical documents that influence the way people design, use, and manage the Internet.





 E	50	G	

Applications Area P. Resnick B. Leiba	Transport Area M. Stiemer- ling	Security Area S.Turner S. Farrell	Routing Area S. Bryant A. Farrell	O&M Area B. Claise J. Jaeggli	RAI Area G.Gamarillo R. Barnes	Internet Area B. Haberman T. Lemmon
appsawg	alto	abfab	bfd	6renum	avtcore	6lowpan
core	()	dane	ccamp	adslmib	avtext	6man
httpbis	cdni	emu	forces	bmwg	bfcpbis	ancp
hybi	(ippm)	(ipsecme)	(i2rs)	dime	(clue)	dhc
jcardcal	mptcp	jose	idr	dnsop	codec	dmm
paws	(nsfv4)	(kitten)	(isis)	(eman)	(cuss)	dnext
precis	ppsp	mile	karp	grow	dispatch	hip
repute	(rmcat)	(nea)	(I2vpn)	(ipfix)	(drinks)	homenet
scim	rmt	oauth	(I3vpn)	mboned	ecrit	intarea
spfbis	(storm)	(pkix)	(manet)	(netconf)	(geopriv)	l2tpext
urnbis	tcpm	tls	mpls	netmod	insipid	lisp
websec	(tsvwg)		(nvo3)	opsawg	mediactrl	lwig
weirds			ospf	opsec	mmusic	mif
			рсе	v6ops	p2psip	mip-4

pim

pwe3

roll

rtwg

sidr

payload

rtcweb

salud

siprec

SOC

straw

viper

xmpp

xrblock

wkops

multimob

netext

ntp

рср

pppext

savi

softwire

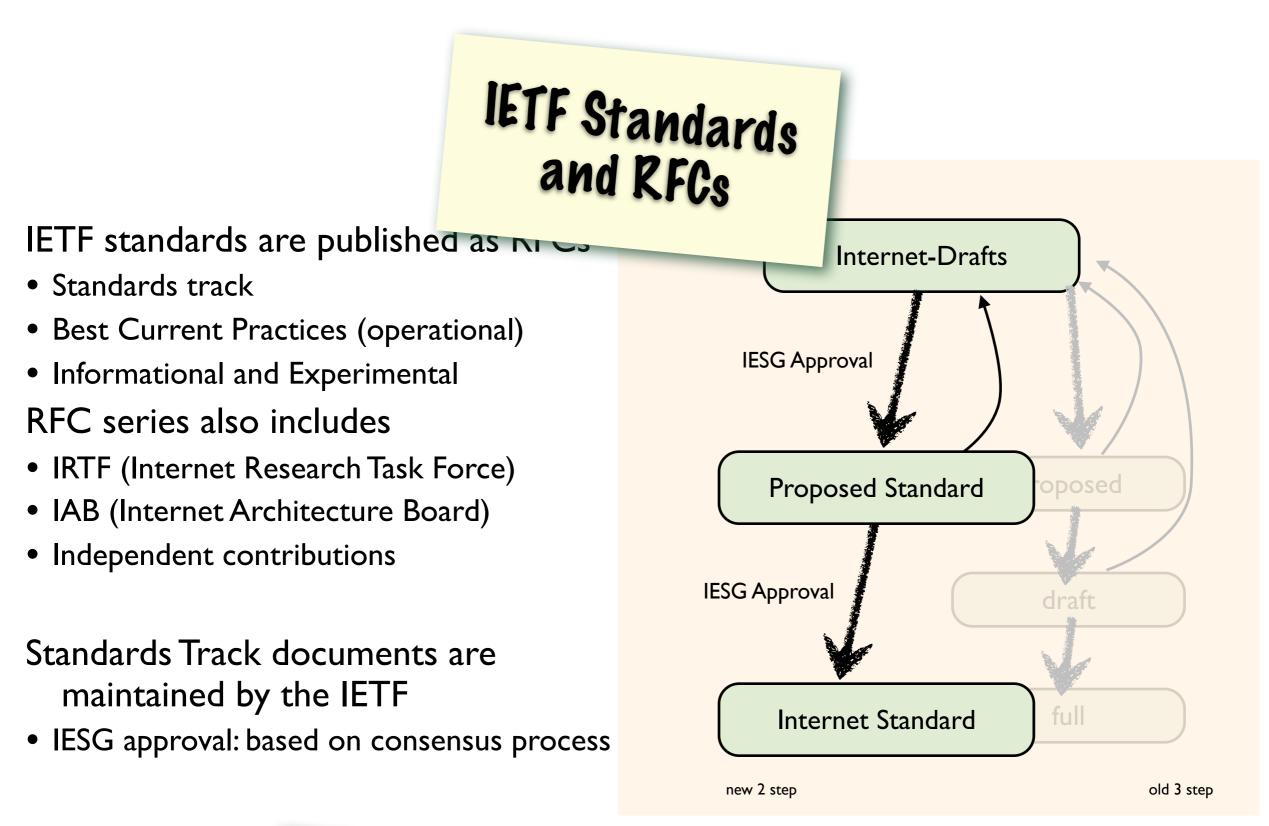
sunset4

tictoc

trill

GENERAL AREA J.Arko

last update of this slide: march 2013



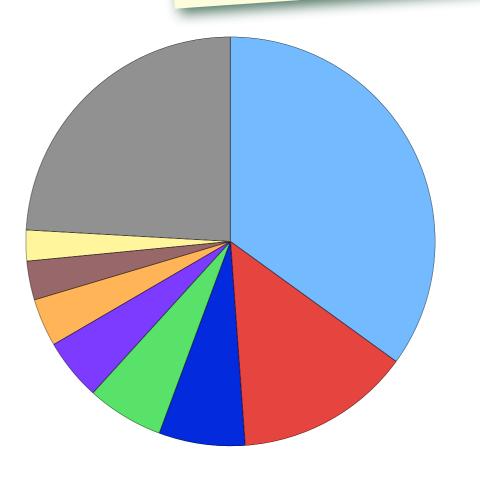


IETF 87 Participal Who Participates



- 1407 people
 - 316 newcomers
 - IETF 84 (Vancouver) was 1199 people
- 62 countries
 - IETF 84 was 52 countries

Berlin Meeting Stats

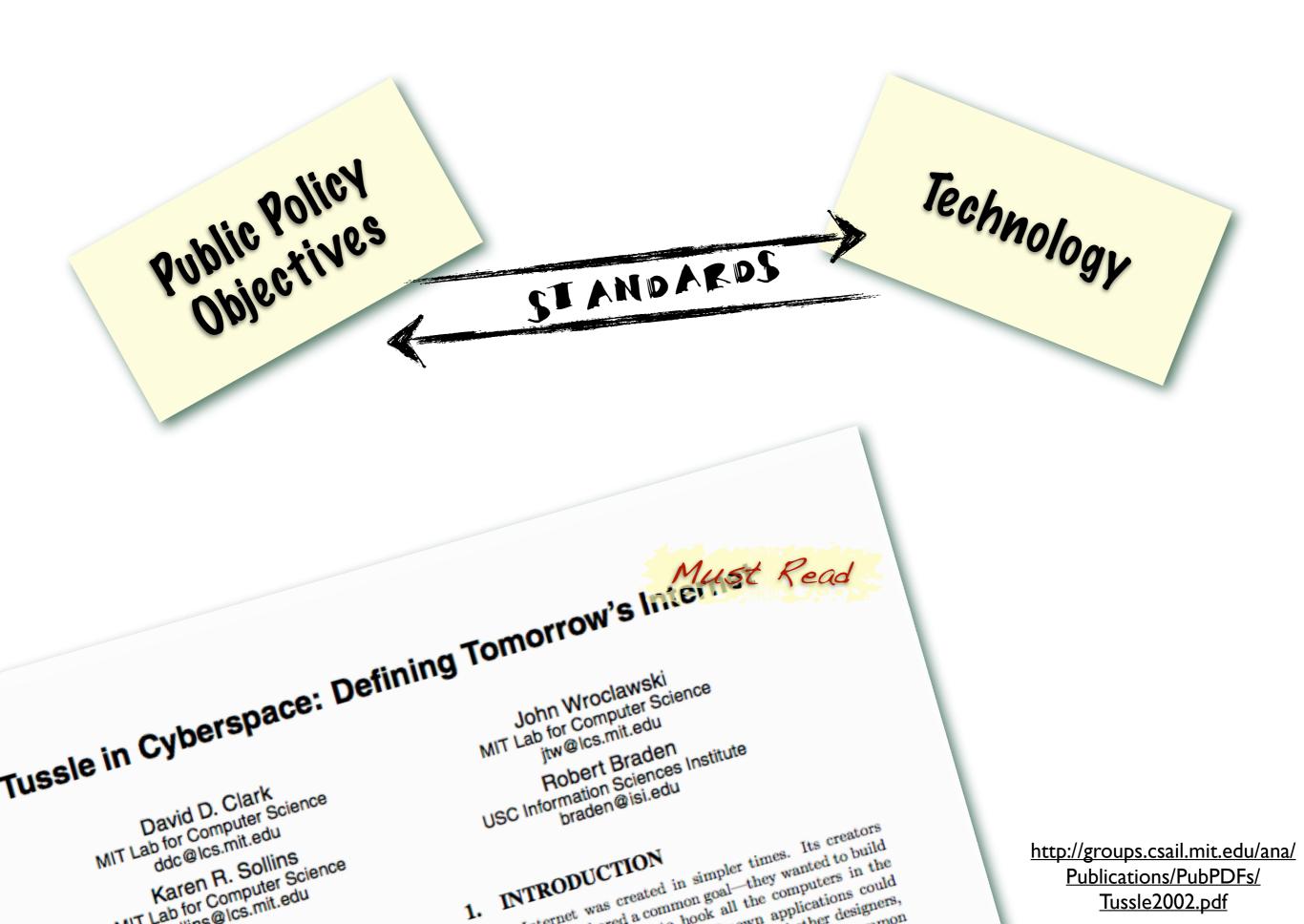


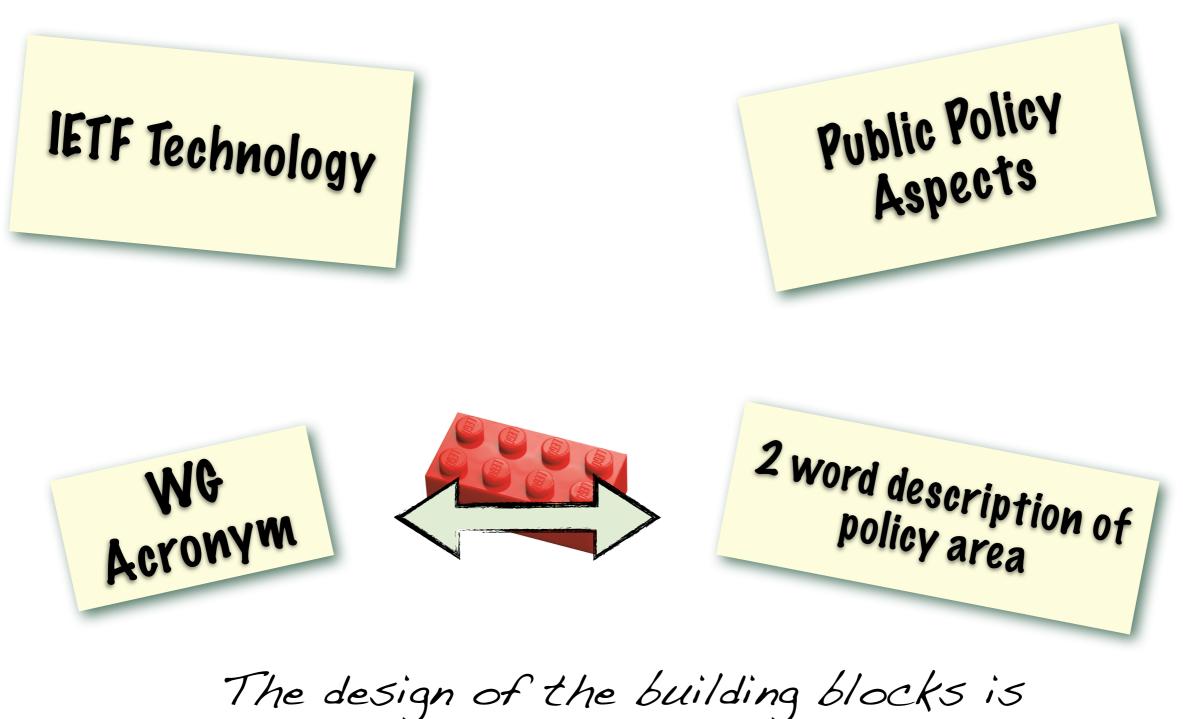


letf comes t	to town	
	November 3-8, 2013	Vancouver, CA
	March 2-7, 2014	London, UK
	July 20-25, 2014	Toronto, CA
	November 9-14, 2014	Honolulu, US
	March 22-27, 2015	Dallas, US
	July 19-24, 2015	Prague, CZ
	November 1-6, 2015	Yokohama, JP

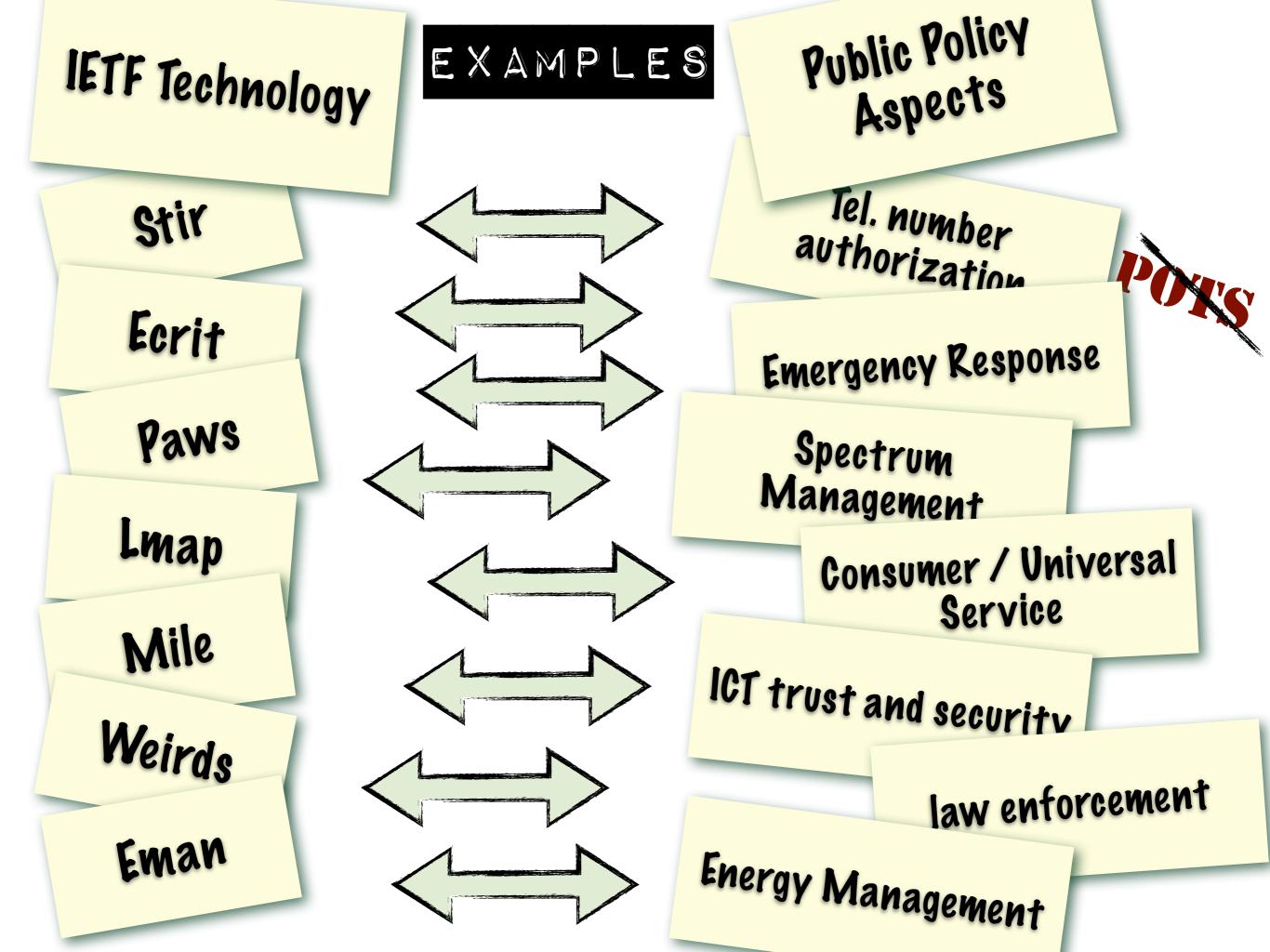
Who	Pays
-----	------

IETF 2012 - 2014 Budget				чу
Revenues	2012	2013	201	
Registration Fees	Budget	Advice	Advice	
Meeting Sponsorship	\$ 2,152	\$ 2,101	\$ 2,119	
Network/NOC Host	310	290	590	
Hotel Commissions	556		605	
New Revenue	145	150	150	
Miscellaneous	100	125	125	
Total Revenue	0	-	125	
	\$ 3,264	\$ 3,221	\$ 3,589	
Expenses	2012	2013		
	Budget	Advice	2014	
RFC Services	900		Advice	
Secretariat Services	1,775		\$ 933	
Secretariat Costs (Other)	2,775	1,788	1,788	
Meeting Space Costs	350	-	-	
Network/NOC Costs	600	290	590	
Meeting Operations (Secretariat)	912	555	630	
Other Meeting Costs	118	828	828	
Subtotal Direct Meeting Costs	1,979	124	124	
Transition Expenses	85	1,796	2,171	
Special Projects	50	60	60	
IT Maintenance	50	50	50	
Admin (IASA, IETF, IAB, IRTF, NomCom)	415	75	100	
IETF Trust ISOC G&A	35	424	442	
	120	37	39	
Total Expenses	\$ 5,408	125 \$ 5,287	130	
ISOC Direct Contribution Excluding Development		\$ 5,287	\$ 5,713	
IT TOOIS Development	\$ 2,145	\$ 2,067	\$ 2,124	
SOC Direct Contribution Including Development	215	50	75	
evelopment	\$ 2,360	\$ 2,117	\$ 2,199	
			- L/199	

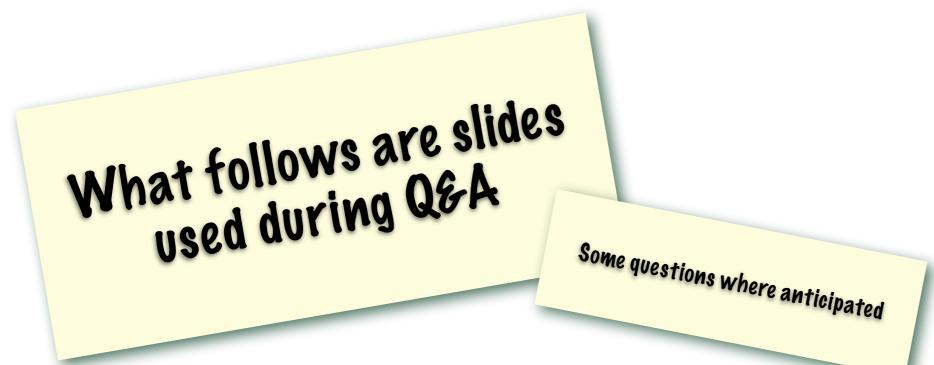




sometimes triggered by policy requirements and sometimes there are identified public policy aspects.









IETF creates few obstacles to support of national cryptographic algorithms in IETF protocols

IETF uses Crypto, does not develop Crypto

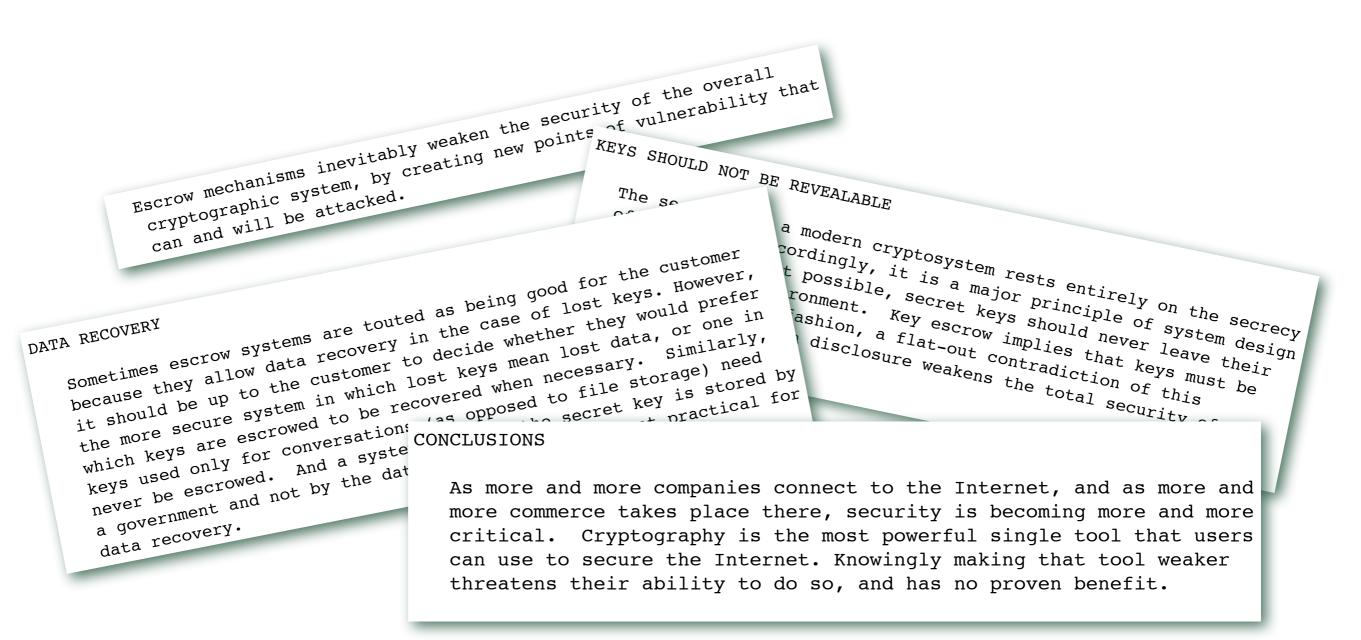
IETF protocols are crypto agile

- Public pointer to algorithm definition required, but the documentation need not be an RFC.
- Easy to publish specifications on algorithm use with IETF security protocols as Informational RFCs
- Procedures in place to allocate code points
- Process already used for publication of RFCs specifying use of US, Korean, Japanese, and Russian cryptographic algorithms

USA – Suite B – RFC 5430, 5647, 6239, 6318, 6379, 6380, etc. **Korea** – SEED – RFC 4009, 4010, 4162, 4196, 4269, 5669, 5748 **Japan** – Camellia – RFC 3657, 3713, 4132, 4312, 5528, 5529, etc. **Russia** – GOST – RFC 4357, 4491, 5830, 5993, etc.

August 1996 RFC1984

IAB and IESG Statement on Cryptographic Technology and the Internet



May 2000 RFC 2804

IETF Policy on Wiretapping

The Internet Engineering Task Force (IETF) has been asked to take a Abstract position on the inclusion into IETF standards-track documents of functionality designed to facilitate wiretapping. This memo explains what the IETF thinks the question means, why its answer is "no", and what that answer means.

SDO	IETF Liaison Manager	IAB Liaison Shepherd
3GPP	Gonzalo Camarillo	Hannes Tschofenig
3GPP2	Charlie Perkins	Marc Blanchet
Broadband Forum	David Sinicrope	Ross Callon
CableLabs	Ralph Droms	Eliot Lear
ICANN Board of Directors	Jonne Soininen	Eliot Lear Andrew Sun Relatio Eliot Lear Marc Blanchet
ICANN NomCom	Russ Mundy	Eliot Lear
ICANN RSSAC	Peter Koch	Marc Blanchet
IEEE 802.1	Eric Gray	Bernard Aboba
IEEE-SA	Dan Romascanu	Bernard Aboba
ISO/IEC JTC1 SC2	Patrik Fältström	Russ Housley
ISO/IEC JTC1 SC29	Stephan Wenger	Russ Housley
ISO/IEC JTC1 SC6	Allison Mankin	Russ Housley
ISO/TC46	John Klensin	Russ Housley
ITU-T	Scott Mansfield	Ross Callon
ITU-T, MPLS	Deborah Brungard	Ross Callon
ITU-T, SG15 (optical control plane)	John Drake	Ross Callon
Messaging Anti-Abuse Working Group (MAAWG)	Barry Leiba	Hannes Tschofenig
Unicode	Patrik Fältström	Dave Thaler
W3C	Mark Nottingham	Alissa Cooper
WIPO	Patrik Fältström	
ZigBee Alliance	JP Vasseur	

Up to date information at: http://www.ietf.org/liaison/managers.html

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