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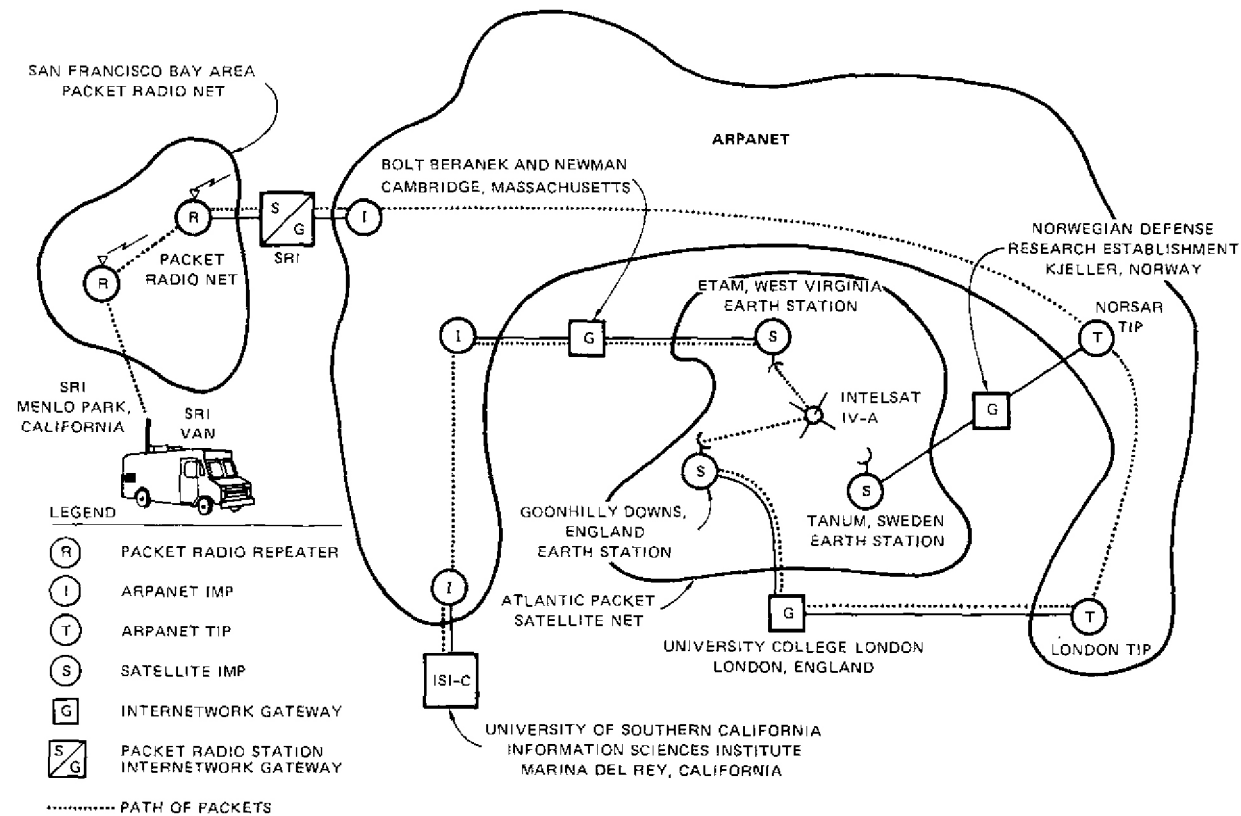
# Internet in Italy

Vint Cerf

April 2016

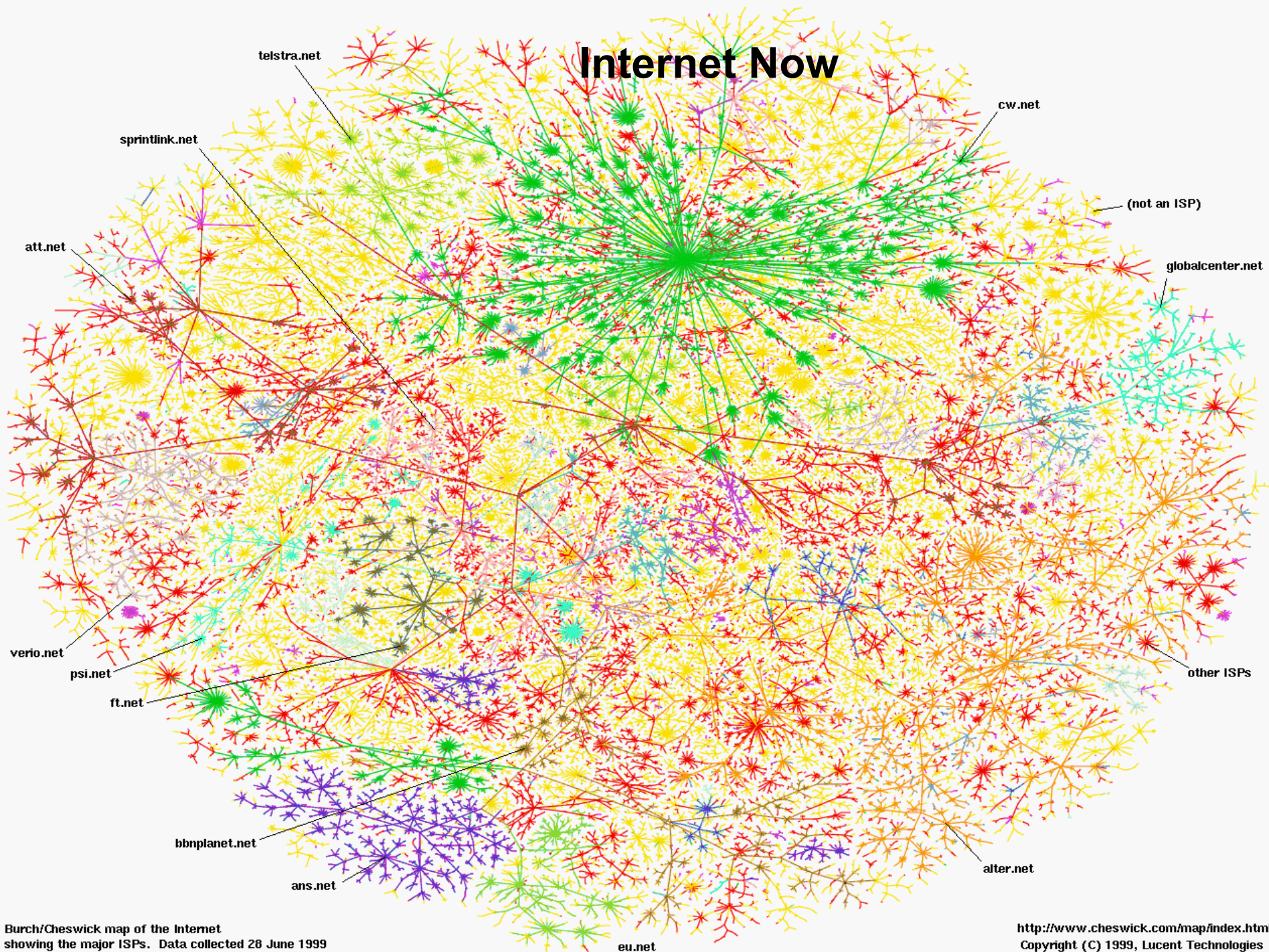


# First Three-Network Test of Internet



November 22, 1977

# Internet Now





# Luciano Lenzini to Robert Kahn (1980)



c.c. Prof. Gianfranco Capriz  
Dept. of Mechanics  
Whiting School of Engineering,  
The Johns Hopkins University  
Baltimore  
Maryland 21218  
USA

Dear Dr. Kahn,

I have been informed by Prof. M. Gerla (UCLA) that the SATNET experiment is to be further extended in Europe. This information has also been recently confirmed by J.L. Grangé (IRIA) and H. Lang (DFVLR).

As Prof. L. Fratta wrote to you, the Italian National Research Council (CNR), and, in particular the CNUCE Institute of CNR (located in Pisa), would be extremely interested in hosting a SATNET node to be used for research purposes.

CNUCE has been working in the computer networking field since 1973 and has been responsible, working together with other research institutions, for the design and implementation of a packet switching distributed control network known as RPCNET (REEL Project Computer



## Luciano Lenzini to Robert Kahn (2)



meter's diameter is now being installed at CNUCE and this experiment should be completed within a few months.

The European Economic Communities has recently commissioned CNUCE to design an extension to this experiment which include CCITT protocols, mainly X25.

A few months ago, the Italian government approved a program to design and implement a Telecommunications Satellite, ITALSAT, and CNUCE is represented in a national group which will propose data transmission experiments using this satellite.

This is a brief outline of some of the activities at CNUCE (we have a staff of about 100). I think that a meeting could be useful to give you further information on these activities and on the role played by CNUCE in the Italian informatics research world.

As the Director of CNUCE, is visiting the John Hopkins University, Baltimore, until the end of March, it should be possible to arrange a first, preliminary meeting between you and Prof. Capriz in the US. If necessary, we could then arrange a further technical discussion between us.

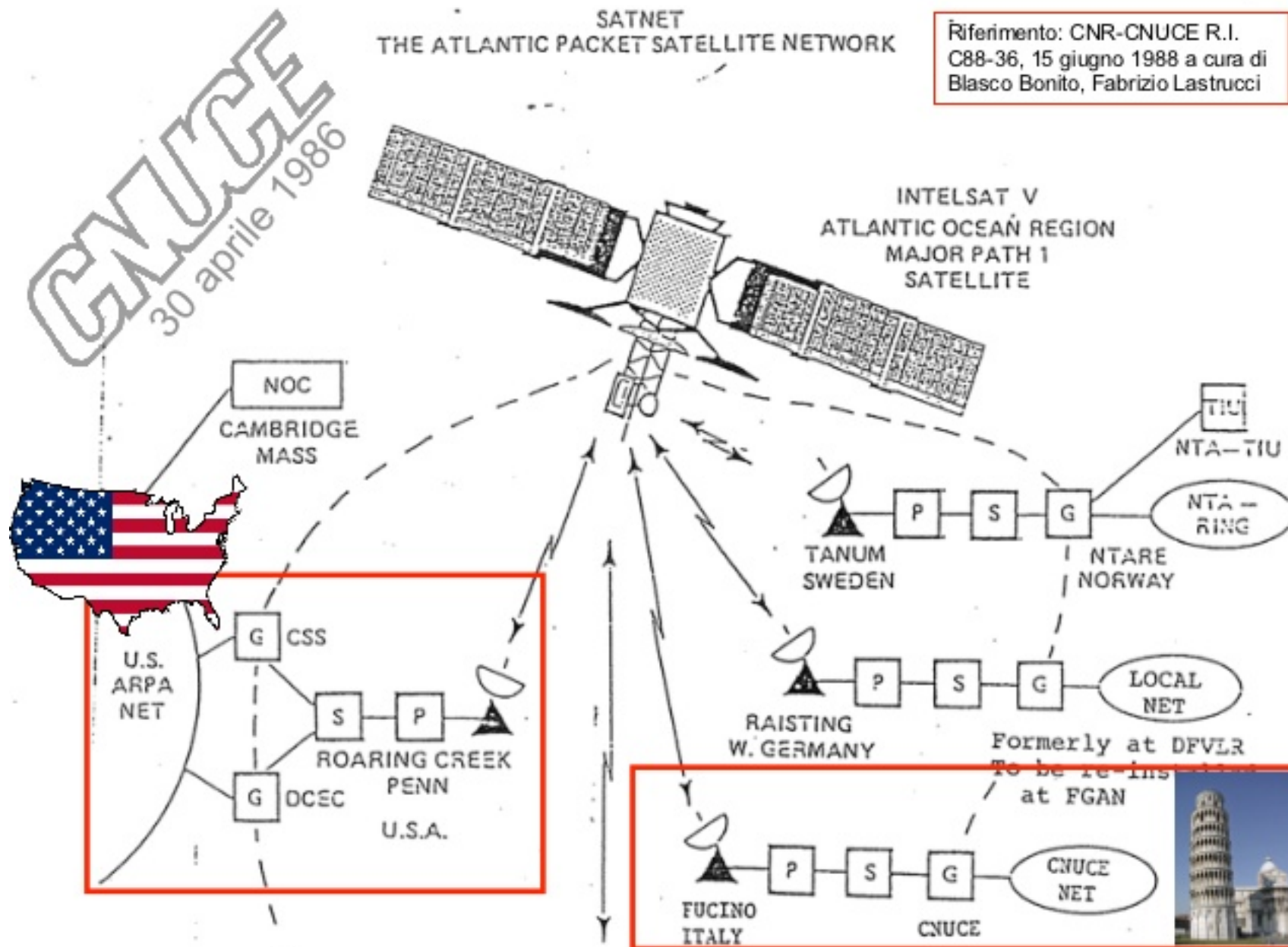
Looking forward to hearing from you,

yours sincerely,

Dr. L. Lenzini

# SATNET THE ATLANTIC PACKET SATELLITE NETWORK

Riferimento: CNR-CNUCE R.I.  
C88-36, 15 giugno 1988 a cura di  
Blasco Bonito, Fabrizio Lastrucci





GMAIL

INDIRIZZO : EARN/BITNET

USERNAME@NODE  
 USERNAME@NODE.EARN  
 USERNAME@NODE.BITNET  
 USERNAME@NODE.dom1.dom2...domN

com "NODE" = MINEMONICO IDENTIFICATORE DEL NODO;  
 "domj" = DOMINIO di LIVELLO N-J+1

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COMANDO: GMAIL [/qualifiers] [FILE] [INDIRIZZI]

- COMPOSIZIONE INTERATTIVA del TESTO SE "FILE" NON E' SPECIFICATO.
- LISTA di INDIRIZZI e DISTRIBUTION-FILES.
- ACCETTA INDIRIZZI FORMATO "MAIL" (EMULAZIONE "MAIL").
- HELP IN LINEA. (INFORMAZIONI SU ALTRE RETI)
- CONTROLLO CONFORMITA' del TESTO ALLE SPECIFICHE di "E-MAIL MESSAGE" (80 CHRS PER RECORD !!)
- CONTROLLO SINTASSI INDIRIZZO e VALIDITA' RETE di DESTINAZIONE.
- STORE AND FORWARD.
- ACCESSO AI "SERVERS".
- SPEDIZIONE MESSAGGI AI NODI DECNET NON RAGGIUNGIBILI TEMPORANEAMENTE.

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- NON E' IN GRADO DI RICEVERE O MANIPOLARE LA POSTA RICEVUTA.
- E' IN GRADO DI REPLICARE AI MESSAGGI RICEVUTI, MA NON E' CONSIGLIABILE !!

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Accesso a JANET NRS- USERNAME@UK.AC.domN...dom1 → CAPVOLGERE!!

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Accesso a UUCP USERNAME@NODE.UUCP

INDIRETTO "PATH.1! PATH.2! NODE! USERNAME@PATH3.UUCP"

DECNET  
 BITNET  
 SMTP (Internet)  
 UUCP  
 UK Graybook  
 X.400

# Stefano Trumpy and Vint Cerf (2006)





- *Born in 1945. Engineering degree.*
- *Director of the CNUCE - CNR from '83 through '96.*
- *Pioneer of the introduction of the Internet in Italy. Administrator of the ccTLD ".it" since its inception in 1987 until 1999.*
- *Delegate for Italy in the Governmental Advisory Committee of ICANN (1999-2014) and the Security and Stability Advisory Committee.*
- *He brought` CNUCE the Institute among the founders of the Internet Society (ISOC) in 1992 and he is the Chairman of the Italian Chapter of the Internet Society. He is a member of the promoting committee of IGF Italy. He Participated, since the beginning, in the Internet Governance Forums promoted by the United Nations.*



*10-15 Billion Devices*

*Including smart phones, laptops,  
pads, hosts, Clouds*

*3-3.5 Billion Users*

\*



- Not designed for any specific application: just move packets
  - (think postcards)
- Designed to run over any communication technology
- Permissionless Innovation at the edges
  - No change to network to add new applications and services
- Designed to scale (1-10 million since 1983 on all axes)
- Open to new protocols, new technology, new applications

# An Internet of Things







# New Ways to Reach the Internet



- Gigabit Networks (US, Africa)
- Project LOON (Balloons at 60,000 feet)
- O3B (Other Three Billion) Satellite system
- Titan Aerospace drones
- TV White Spaces
- WiFi where payphones used to be

# Use of Internet in Archaeology



North to south

- Gallic
- Etruscan
- Ligurian
- Umbrian
- Picentine
- Sabine
- Vestinian
- Frentanian
- Aequian
- Faliscan
- Latin / Roman
- Samnite
- Paelignian
- Marsic
- Volscian
- Hernican
- Daunian
- Auruncan
- Campanian
- Peucetian
- Lucanian
- Messapian
- Greek
- Bruttian

