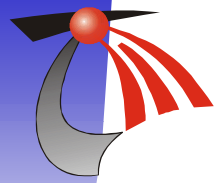


Centre for
Telematics and
Information
Technology

University of Twente
*The Netherlands*

# The Internet Next Generation project

**Aiko Pras**

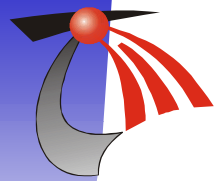
**CTIT, University of Twente**

**pras@ctit.utwente.nl, http://www.ctit.utwente.nl/~pras**

http://ing.ctit.utwente.nl/

**TI-CTIT Workshop**

**January 26, 1999, Enschede, NL**



Centre for
Telematics and
Information
Technology

University of Twente
*The Netherlands*

# CONTENTS

- OVERVIEW
- GOALS
- SPECIFIC RESEARCH TOPICS
- EMBEDDING
- PARTNERS
- STATUS

# OVERVIEW

- **PROPOSED TI PROJECT**
- **FOUR YEARS**
- **4.4 MFL / YEAR**
- **SHOULD FIT WITHIN GIGAPORT**

# GOALS - I

## INCREASE DUTCH CONTRIBUTION TO THE INTERNATIONAL DEVELOPMENT OF NEW TECHNOLOGIES FOR TRANSFERRING AND MANAGING INTERNET TRAFFIC

- PARTICIPATE IN QBONE PROJECT
- PARTICIPATE IN IRTF SERVICE MANAGEMENT RESEARCH GROUP
- PARTICIPATE IN IRTF NETWORK MANAGEMENT RESEARCH GROUP
- CONTRIBUTE TO IETF WORKING GROUPS

(DIFFSERV, DISMAN, INTSERV, IPPM, RTFM, …)

# GOALS - II

## STRENGTHEN KNOWLEDGE WITHIN THE NETHERLANDS ON NEW INTERNET TECHNOLOGIES

- **WEB-SERVER(S) WITH (POINTERS TO) RELEVANT INFORMATION**
- **TUTORIALS**
- **WEB-BASED TRAINING MODULES**
- **ANTC**

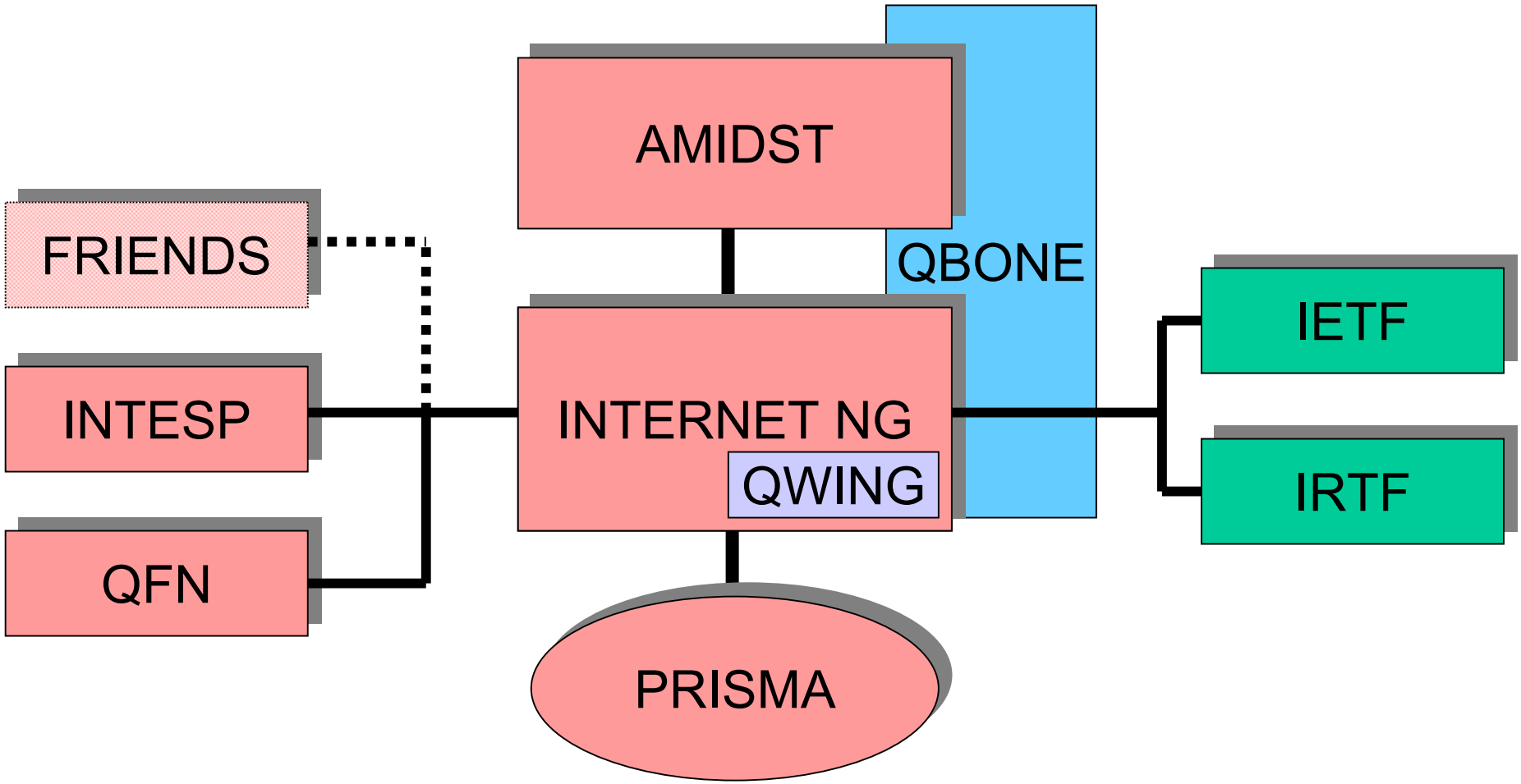
# SPECIFIC RESEARCH TOPICS

- ADD QUALITY OF SERVICE (QoS) SUPPORT TO THE INTERNET
- USING THE *"DIFFERENTIATED SERVICES"* TECHNOLOGY
- PAY SPECIFIC ATTENTION TO MOBILE AND WIRELESS USERS
- DEVELOP APPROACHES FOR INTERNET ACCOUNTING
- IMPROVE CURRENT INTERNET MANAGEMENT FRAMEWORK

# RESEARCH QUESTIONS
## EXAMPLE: ACCOUNTING

- CAN ACCOUNTING BE BASED ON TRAFFIC VOLUME
- CAN ACCOUNTING OF TRANSPORT AND SERVICES BE INTEGRATED
- CAN ACCOUNTING BE BASED ON GEOGRAPHICAL REGIONS
- CAN ACCOUNTING BE BASED ON BORDERS BETWEEN OPERATORS
- WHICH ACCOUNTING INFO IS NEEDED, AND WHERE
- HOW CAN THIS INFORMATION BE OBTAINED
- WHICH INFORMATION BE SHOULD EXCHANGED BETWEEN OPERATORS

# EMBEDDING


AMIDST
QBONE
FRIENDS
INTESP
QFN
INTERNET NG
QWING
IETF
IRTF
PRISMA

# PARTNERS

**UNIVERSITY OF TWENTE - CTIT**

**ERICSSON BUSINESS MOBILE NETWORKS BV**

**ERICSSON TELECOMMUNICATIONS BV**

**KPN RESEARCH**

**TELEMATICA INSTITUUT - CENTRAL ORGANIZATION**

# STATUS

## PROPOSAL HAS BEEN SUBMITTED TO TI

## WAITING FOR FORMAL APPROVAL

## POSSIBLE FUNDING:

- "BASISFINANCIERING" TI
- GIGAWORKS
- GIGANET
- BTS
- ...