

Panel discussion The global Internet and JANOG Part II

11th July 2008, JANOG 22
Tokyo Japan

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Overview

- APNIC コミュニティーアップデート
- アジア太平洋地域におけるIPv6トレーニング
- アジア太平洋地域におけるJANOG

- APNIC community update
- IPv6 trainings in the Asia Pacific region
- JANOG in the Asia Pacific Region

APNIC community update

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DUMBO on the move

- APNIC、2008年5月サイクロンNargisの被害地ミャンマー援助のための“災害復旧管理協力プログラム”をサポート
 - DUMBOプロジェクト発動を援助（資金と機材の援助）
 - AIT, TSF, WIDE, dotAisaと協力
 - 技術教育
 - DUMBO = Digital Ubiquitous Mobile Broadband OLSR (Optimised Link State Routing)
 - 災害直後、固定ネットワークインフラが無い、または破壊された状況で、アドホックな移動無線ネットワークを配備
- APNIC supported Post-disaster Recovery Management and Coordination Program
 - DUMBO project during Myanmar; Cyclone Nargis 2008 (fund and equipment support)
 - Collaborate with AIT, TSF, Wide and dotAsia
 - Technical training
 - DUMBO = Digital Ubiquitous Mobil Broadband OLSR (Optimised Link State Routing)
 - Deploying mobile wireless network on an ad hoc (Mobile Ad-hoc NETwork = MANET) basis for emergency conditions such in a post-disaster period when a fixed network infrastructure is not available or has been destroyed

What is DUMBO?

- DUMBOは以下の3つ団体のジョイントリサーチプロジェクト
 - Internet Research and Education Laboratory at Asia Institute of Technology (AIT) (Thailand)
 - HIPERCOM Project at INRIA (France)
 - WIDE Project (Japan)
- DUMBO is a joint research project led by:
 - Internet Research and Education Laboratory at AIT (Thailand)
 - HIPERCOM Project at INRIA (France)
 - WIDE Project (Japan)

What is DUMBO?

The first DUMBO deployment was during the 2006 Asia Tsunami Disaster. Asia Broadband and IIJ are also co-sponsors of the project.

The project aims at the use of mobile ad-hoc networks in an environment where network infrastructure is not available, such as in the case of natural disaster.

Operations of heterogeneous networks in emergency conditions will be explored.

The experiments will provide feedbacks for further enhancement of related network and application protocols for emergency situation.

Project Leaders:

intERLab/AIT, Thailand
INRIA, France
WIDE Project, Japan

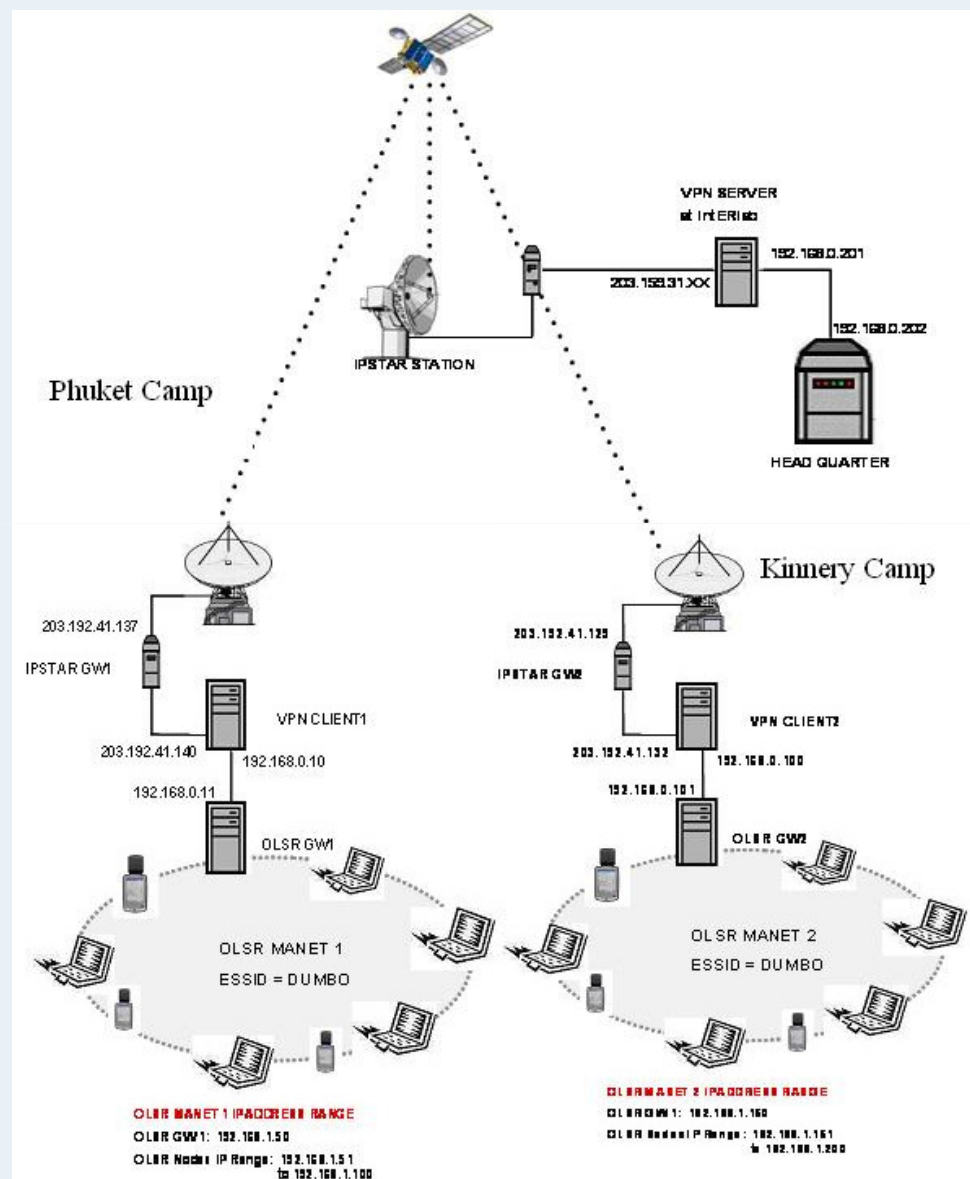
Technical Partners:

I²R (Singapore)
Live E! Project (Japan)
Telecoms Sans Frontieres (France)

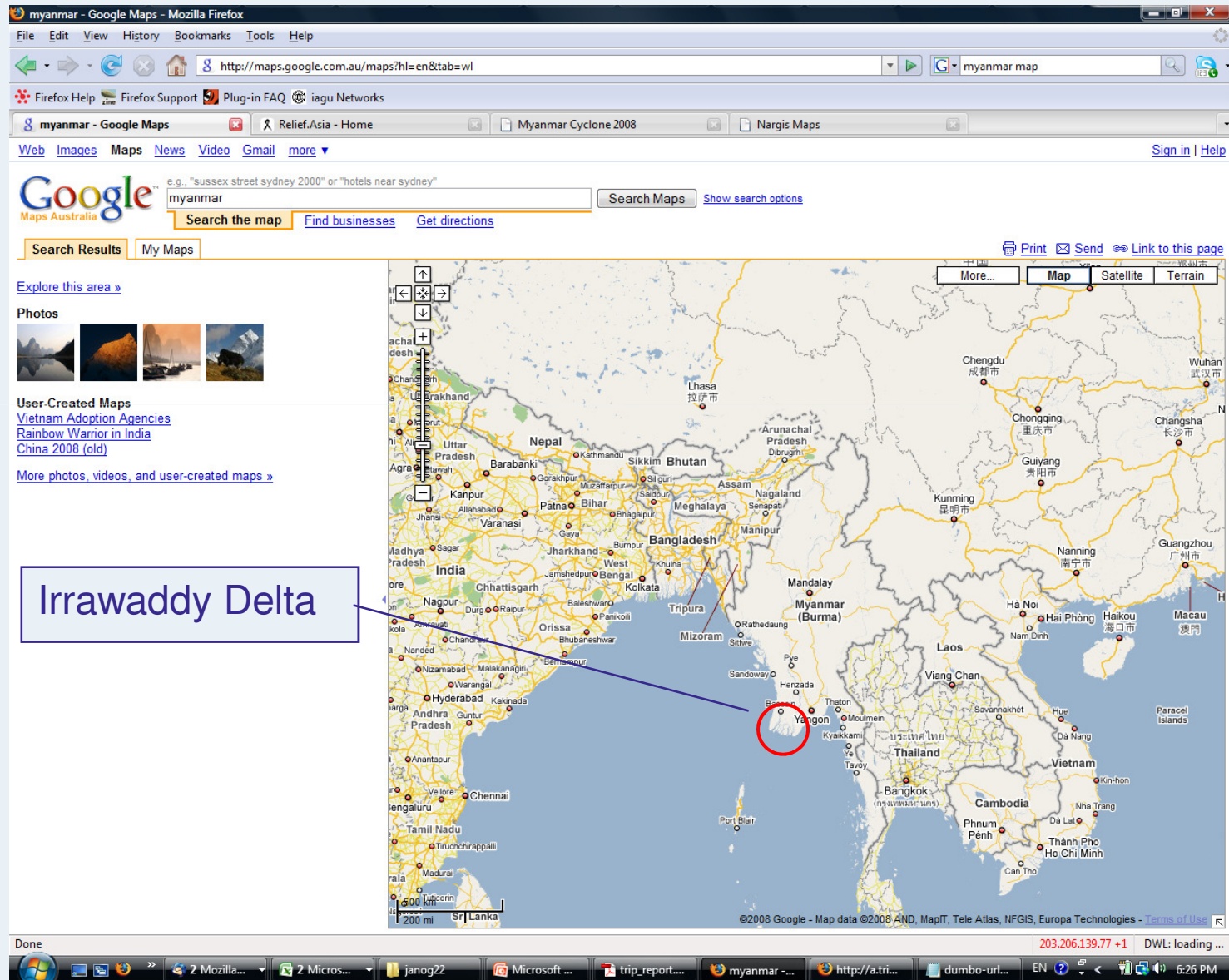
What DUMBO does?

- DUMBO enables:
 - 固定ネットワーク非依存、すばやい移動無線敷設
 - ストリーミングビデオ
 - VoIP
 - ショートメッセージ
 - 顔写真認識モジュールによる未確認被害者マッチング
- DUMBO enables:
 - Quick mobile wireless network deployment as it does not rely on fixed telecommunication infrastructure
 - Streaming video
 - VoIP
 - Short message
 - Face recognition for unknown victims

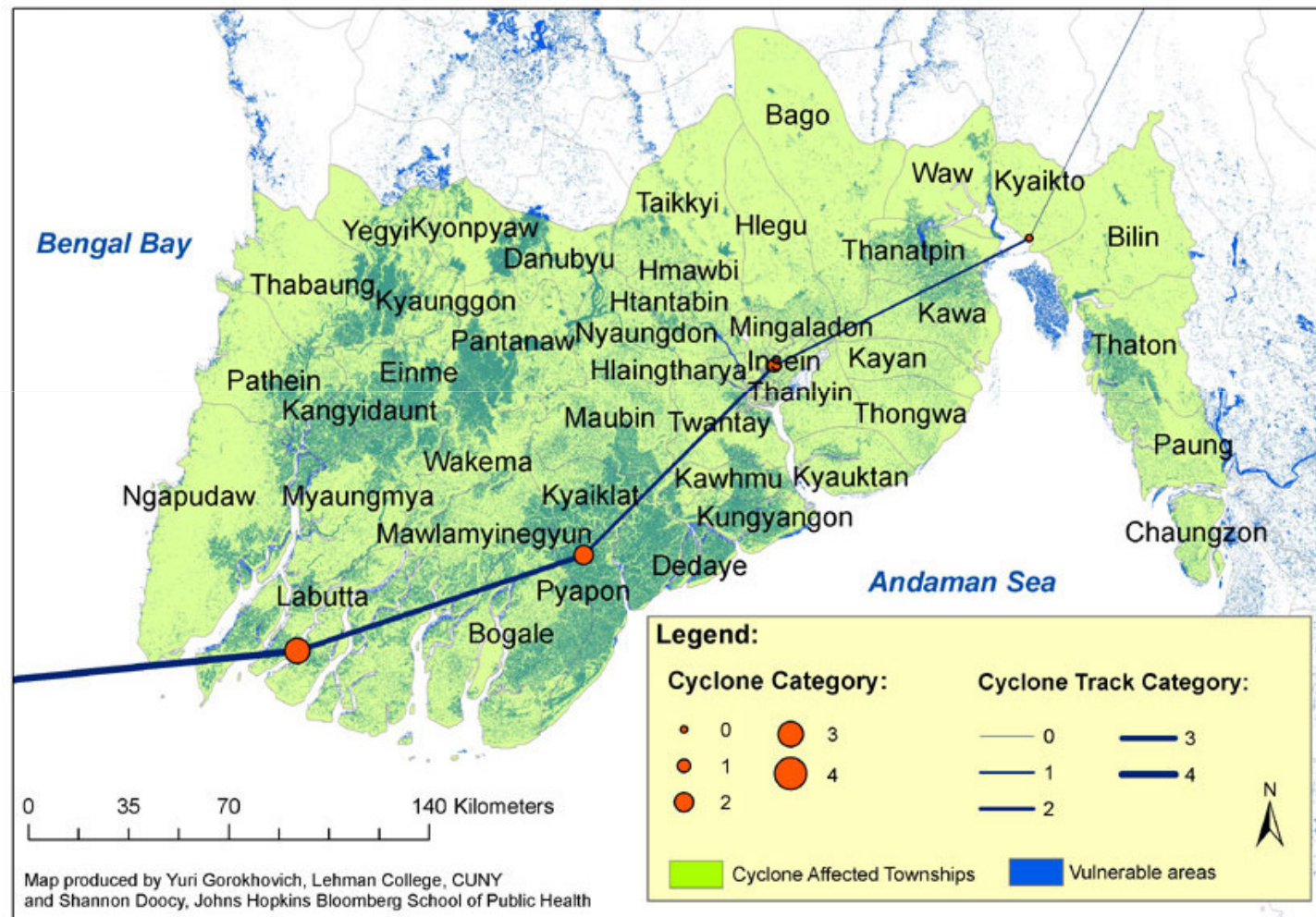
Network topology



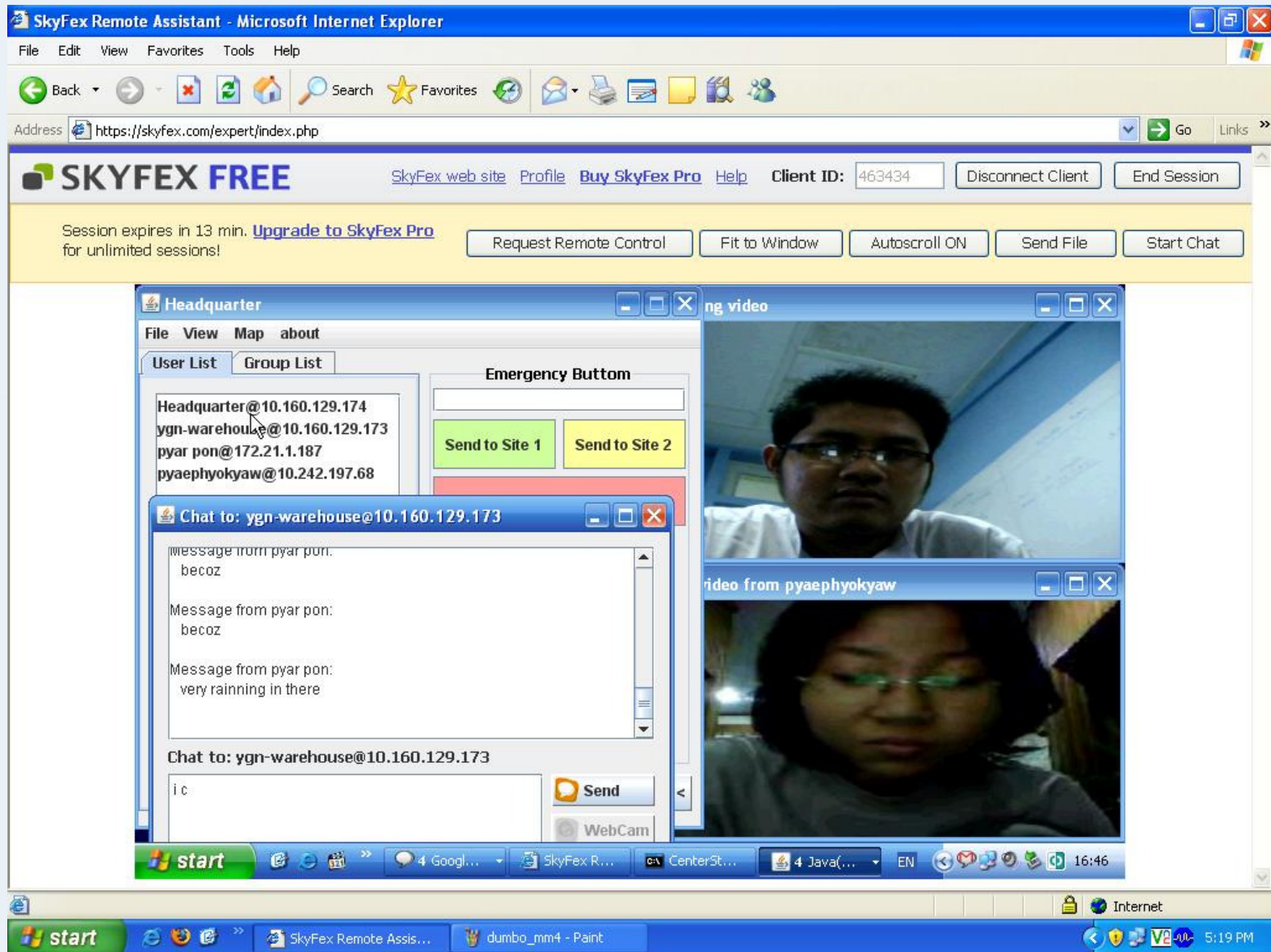
Myanmar



Affected area map – Irrawaddy Delta



DUMBO screen capture



IPv6 trainings in the Asia Pacific region

IPv6 education needs in the AP region

- APNIC IPv6関連のトレーニングの比率
 - 2007年: 通年51%
 - 2008年: 7月現在で、64%
 - National Internet eXchange of India (NIXI)
 - 近くIPv6実装を予定
 - これをうけてインドでのトレーニング需要急増顕著
- Proportion of IPv6 training by APNIC
 - 2007: year-round – 51%
 - 2008: as of this month (July) – 64%
 - NIXI is planning to implement IPv6
 - Reflecting this decision, IPv6 training demand in India is rapidly growing

IPv6 education needs in the AP region

- アジアの諸地域のISPs、IPv6テスト実装の動き
 - 基本的な部分での困惑、質問
 - 適切なサブネットサイズは？
 - /48以外のサブネットを顧客に割当ててる際の注意点？
 - 適切な経路広告サイズは？
 - /32を分散利用した場合は？
 - どのトランジションメカニズムが自社のニーズに合うのか？
- Emergence of AP regions' ISPs that started testing IPv6
 - Confusion at the basic level
 - Optimal subnet size?
 - Any specific attention should be given to assigning prefixes other than /48?
 - Appropriate announcement size?
 - What should they do if they need to divide a /32?
 - Which transition mechanism is the most suitable one for our networks?

JANOG in the Asia Pacific region

JANOG in the Asia Pacific region

- IPv6移行に関する経験値の共有
 - Webサイト経由での実装に関する情報の共有
 - 継続的なQAサイトの運営
 - 最先端の技術リサーチ情報の共有
 - スムーズな移行プロセスは？どのサービスから？
 - 問題になるアプリは何？
 - セキュリティーの実装はどうすればいいの？
 - ビジネスサイドでの要考慮事項は？
 - IPv6サービスの価格化？
 - IPv6でのVoIPサービスの実効性は？
 - 等々
- Share experience of IPv6 transition
 - Via a website
 - Run a QA site
 - Share cutting edge technical research results
 - Smooth transition process? Which service to start?
 - What applications will be negatively impacted?
 - How to implement point to point security?
 - Important business elements to be considered
 - How to price IPv6 services?
 - IPv6 for VoIP?
 - Etc.

Thank you!