



laas - A Solution for Rural Markets

Michael Butler

President

Digital Health Exchange

Digital Health Exchange/Cordova Systems

An Alaskan Corporation







Digital Health Exchange Overview

- Network Service Provider
- Application Service Provider
- Bandwidth Aggregator

Telecom consultant focused on developing infrastructure in Rural areas

IAAS

Peering is the fundamental aspect of the internet-laas is becoming the methodology for understanding and developing service delivery models.

Understanding this is the key for bridging the digital divide and offering laas in rural areas

Lots of options/great technology



Problem

The digital divide
Contrast Urban versus rural areas

Issues

As an example:

Net neutrality-how to increase competition

Understanding peering versus private networking
Fcc....keep it open, keep it fair

Open access to content

Question

How do you do what you want to do -where you want to do it?

Its a basic question of freedom!

Technology should make us freer, not tie us down to a certain location!

Vision

Global anytime/anywhere

At the same time, being Local is relevant

The cloud

What is it really?

What are the components?

Servers/Data centers

Application Infrastructure

NETWORKS

Network Infrastructure-connectivity

Peering-private(and public) networks interconnecting

Web-based services

Software-as-a-service

App-components-as-a-service

Software-platform-as-a-service

Virtual-infrastructure-as-a-service

Physical-infrastructure-as-a-service

What is possible

Live on the family farm, compete globally!

Strong rural communities need economic development/need to be part of the main stream!

The challenge

Cost Price Quality

But first....the terrain!



Problem



Many Applications include:

- Ultrasound
- Nuclear Medicine
- Radiology
- EMR
- Cardiology
- Distance Education
- Dermatology
- NASA
- Psychiatry
- Home Health Care
- Adult Rehabilitation
- Emergency Departments
- Pediatrics
- Patient Management
- Nephrology
- Pathology
- Perinatology
- Optometry
- Oncology
- Many more



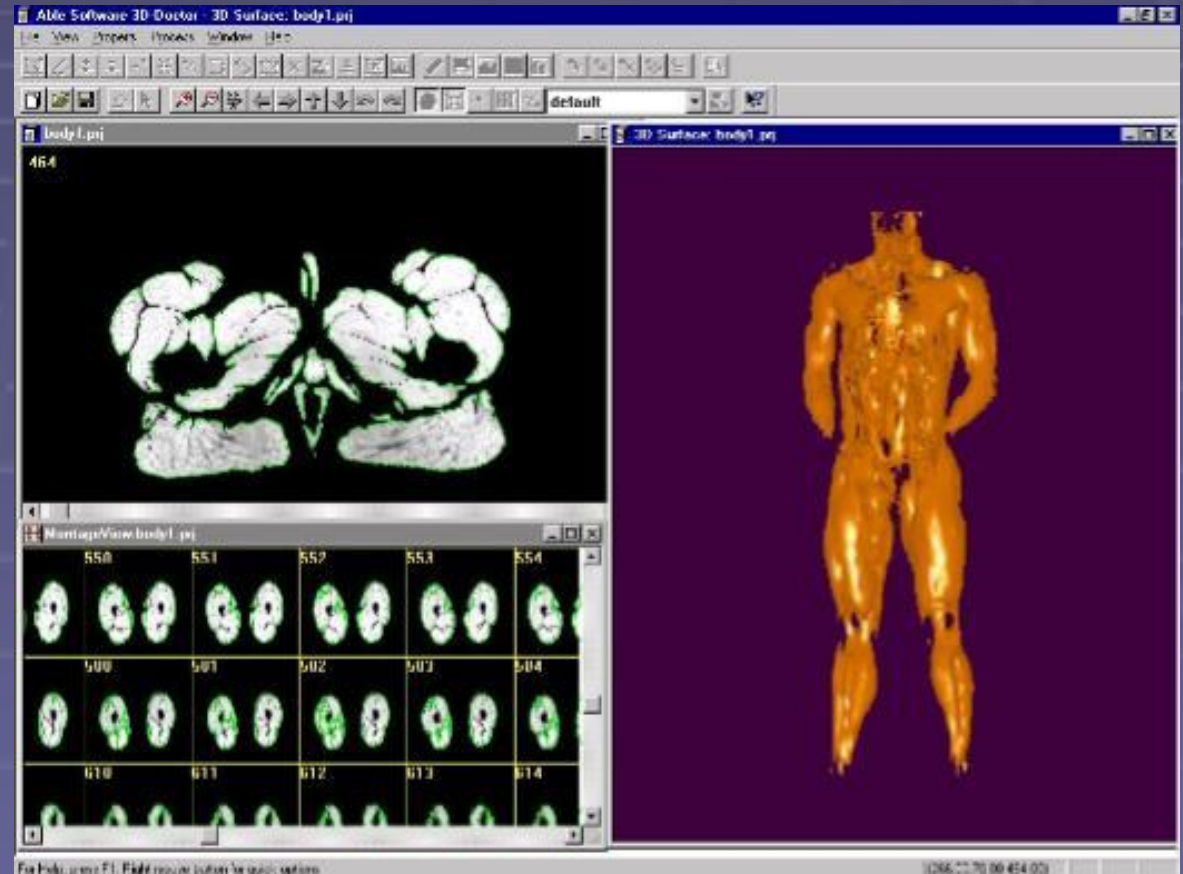
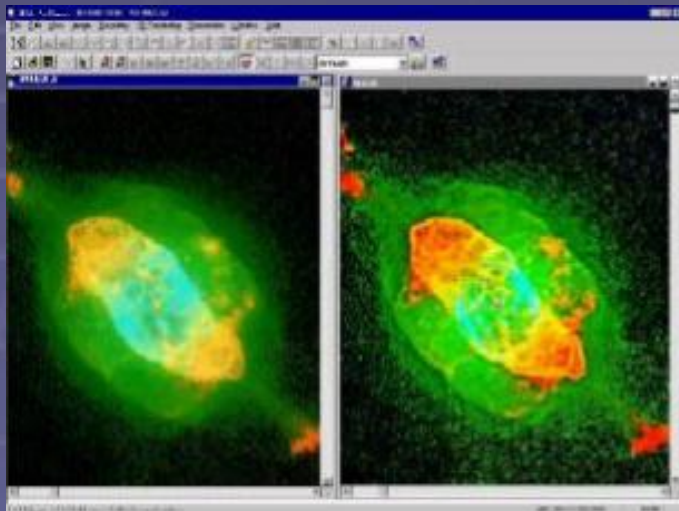
Ultrasound

- Extremely High Quality diagnostic ultrasound images

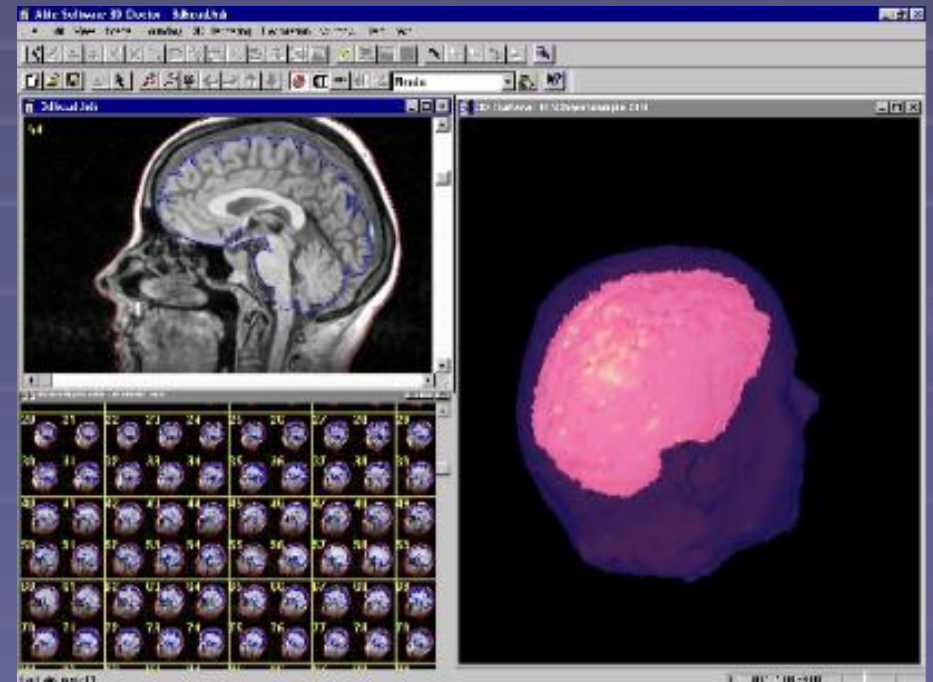
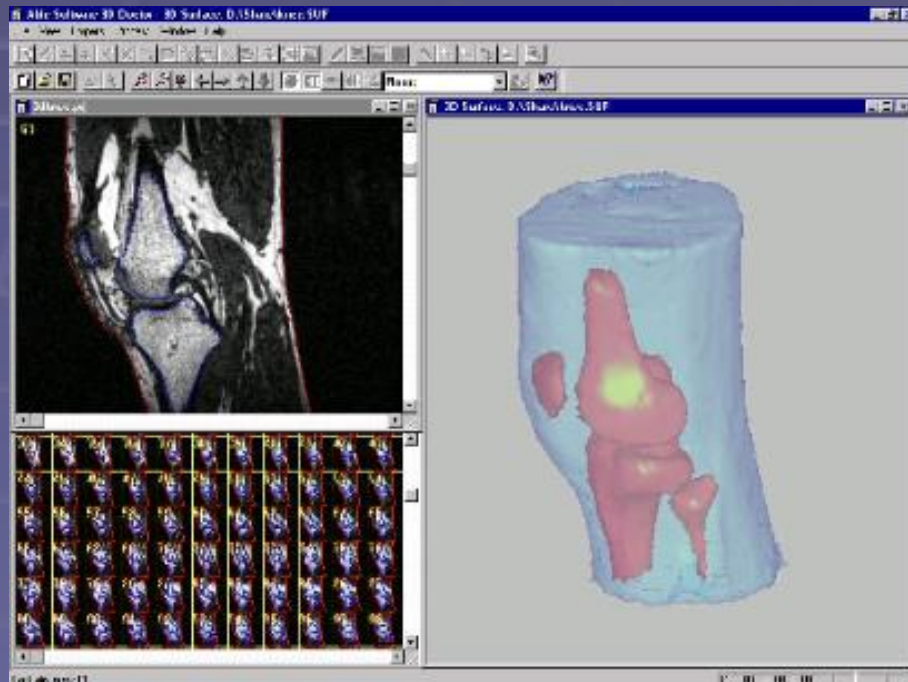
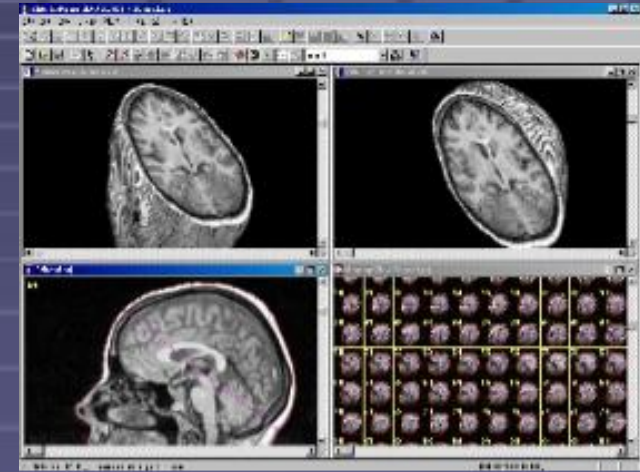
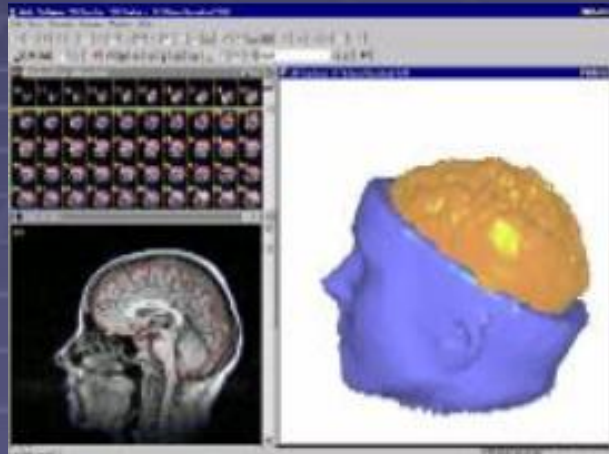


Teleradiology Applications

- MRI
- Computed Tomography



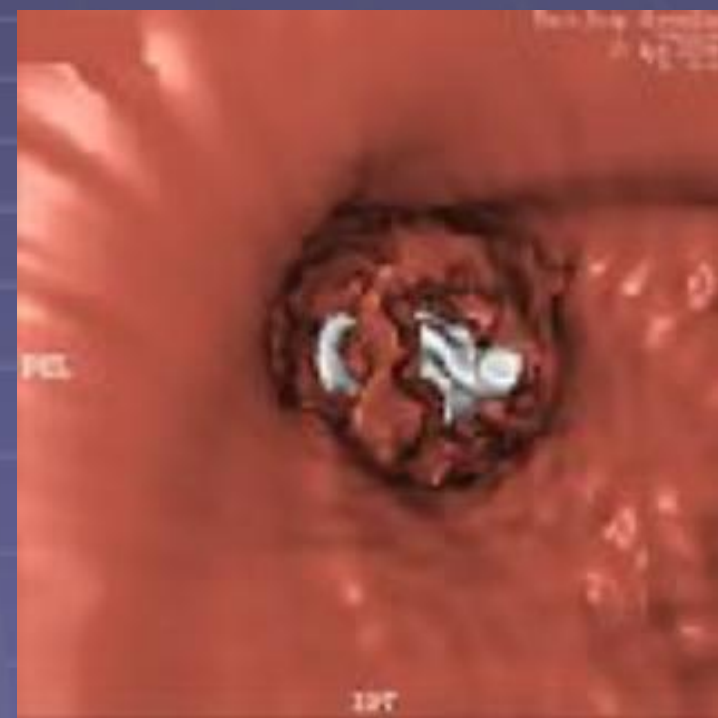
3D Visualization and Rendering of MRI Images Using 3D-DOCTOR



- *4-D Angio Volume Rendering simply making advanced visualization a work of art.*



Voyager is a real-time virtual endoscopy tool that renders spiral CT data to provide fly-through images within and around hollow organs.



Radworks: Applicare's High End medical viewing application



Practice Partner Patient Records



Electronic Document Management



 Physician Micro Systems, Inc.



SOAPware EMR

SOAPware is designed for speed and ease of use by physicians in high volume practices.



Distance Education

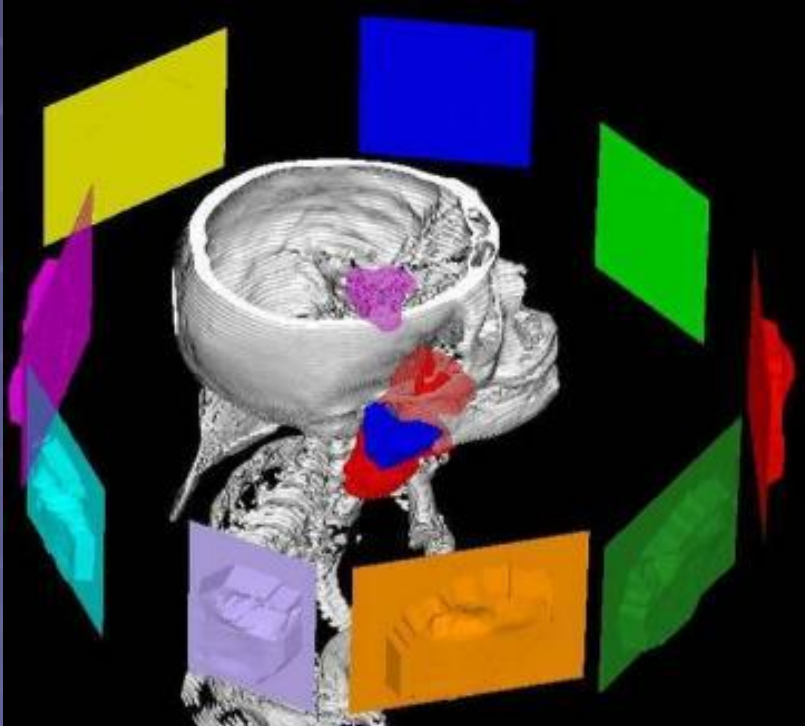
Distance education can improve the quality of instruction, as well as lower the delivery cost of educational materials.



Oncology

Radiation Oncology Systems

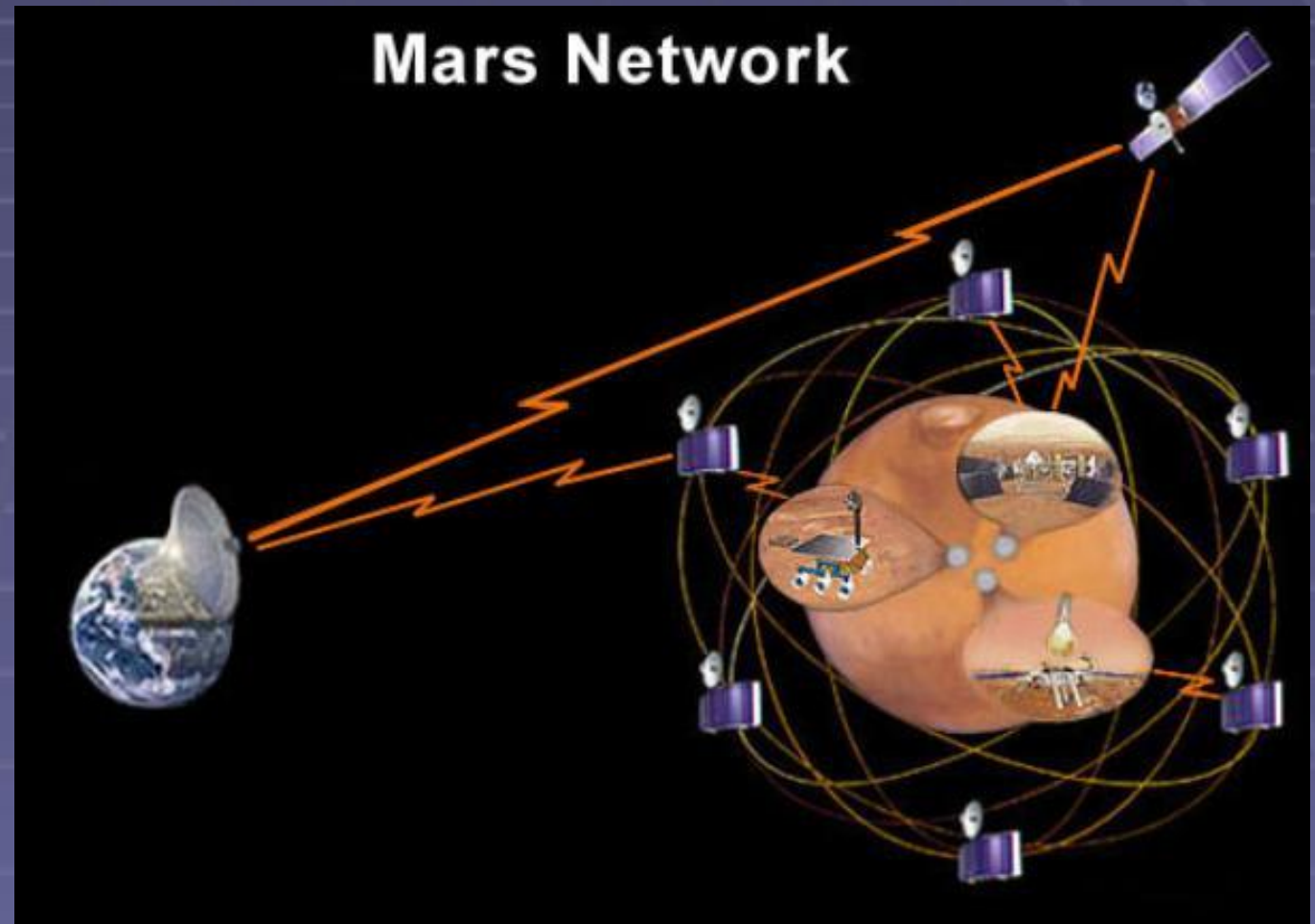
- Innovative solutions to manage patient treatment. These include imaging, localization, simulation and planning, minimally invasive, image-guided procedures, and inverse planning, conformal external beam planning and IMRT.



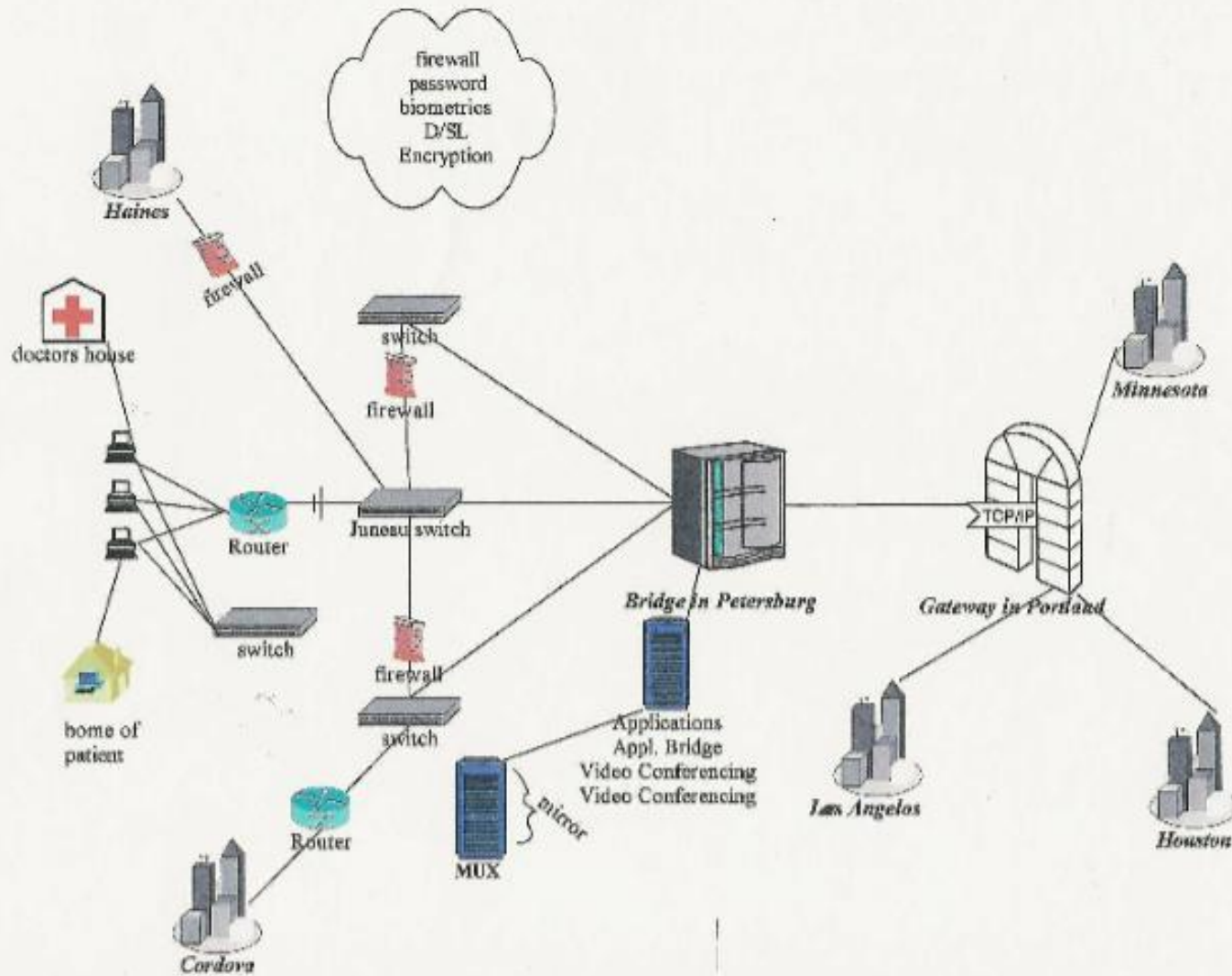
The Future

NASA: Mission to Mars

A communications system that will support global reconnaissance of the planet. This infrastructure will also relay back to Earth the vast amounts of information gathered through surface exploration, sample return missions, robotic outposts and even eventual human exploration.



Applications Platform



Business Development Strategy

- Focus on rural communities
- Urban Communities participate from a rural cost perspective
- Attention to the individual needs of each rural hospital

Bandwidth Aggregation

- In remote areas bandwidth is prohibitively expensive
- Typical network development is done on a circuit by circuit basis
- cooperate to buy the bigger pipes, sells off unused capacity
- Advantage to our vendors is dealing with one customer to develop the entire region

Final Thought

- There is a tremendous opportunity for changing the current status quo in rural markets.
- Working together we can make a significant difference in the lives of people in rural communities

Contact info

Mike Butler

mbutlerak@gmail.com

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