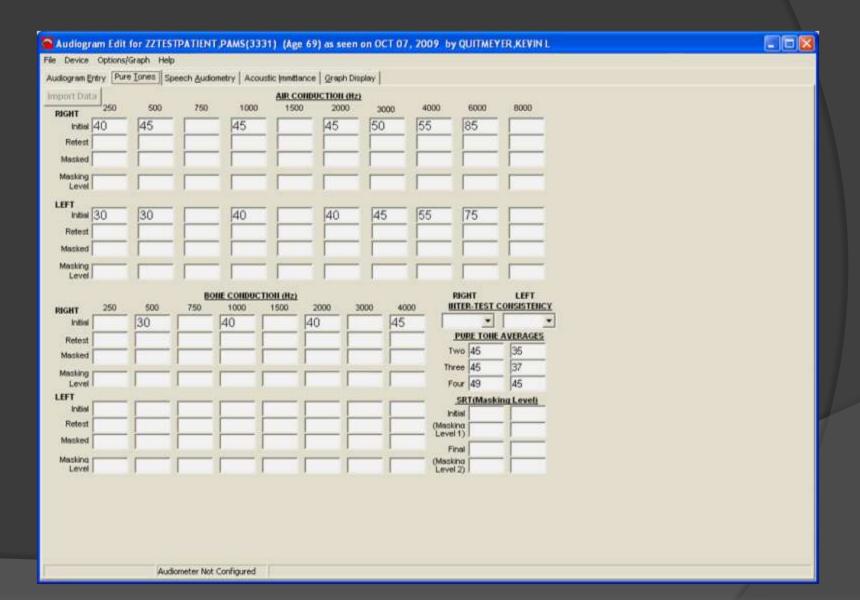
Joint Defense/Veterans Audiology Conference 2010 February 22, 2010

VA AUDIOMETRIC MANAGEMENT

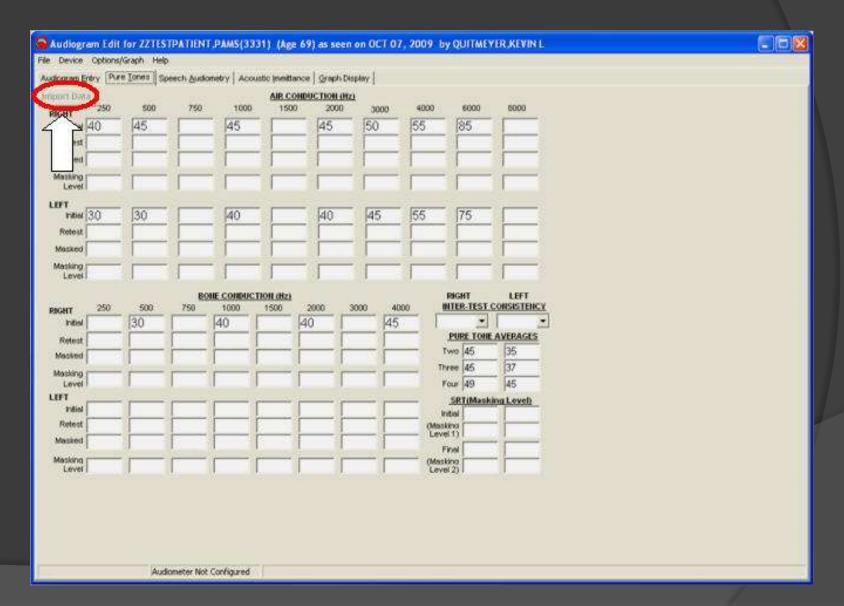
Credits

- ASPS Program Office
- ROES 3 Task Force
- ASPS Field Advisory Council (FAC)
- FAC IT Road Map Task Force
- VA Audiology community

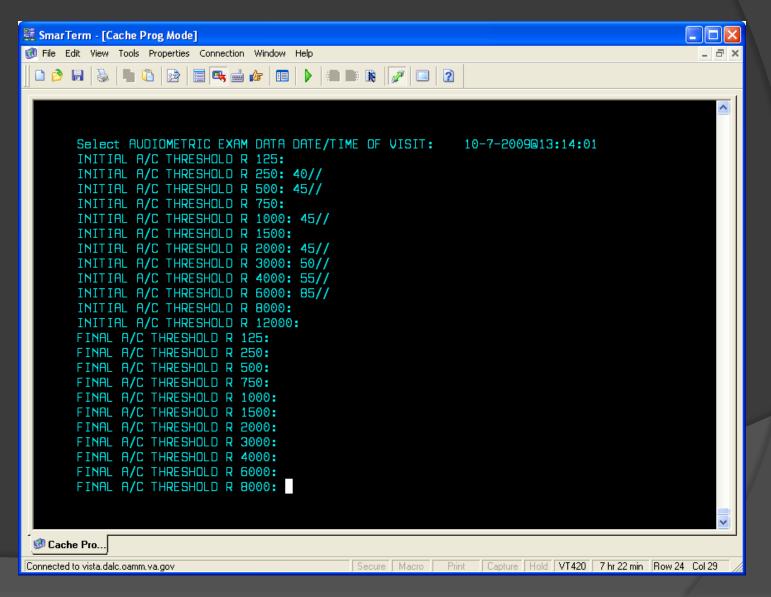
Current State



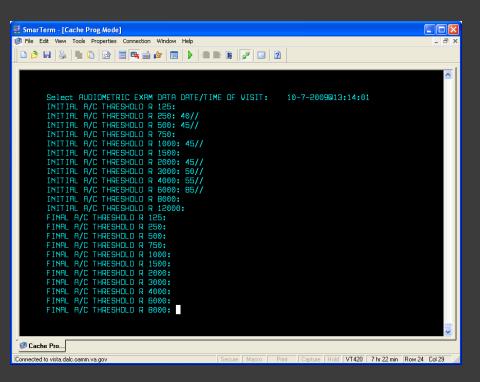
Current State

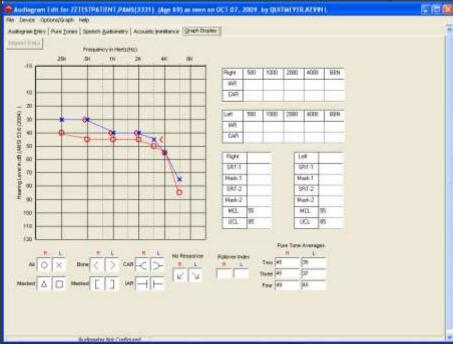


Retrospective



Eye Test





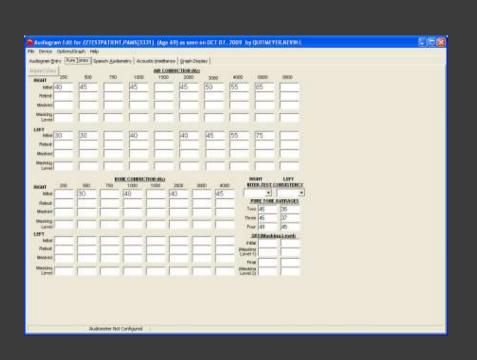
Guiding Vision

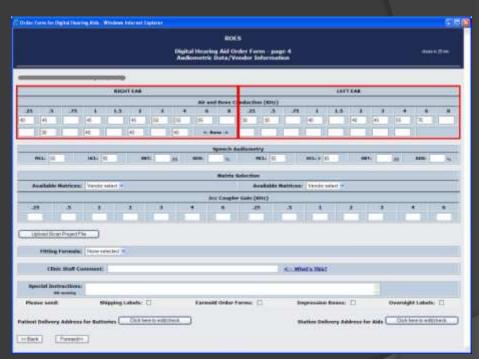
- Efficient capture of audiometric records
- Integration with VA patient records system
- Genesis of a VA national audiometric repository

Overview of Repository

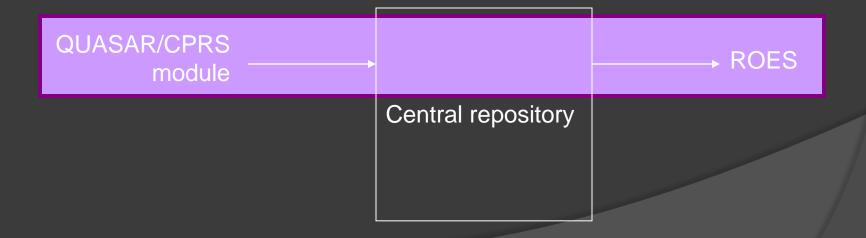
- Resident at DALC
 - Over 1.1 million records and growing
- Contributing drivers
 - VHA healthcare vision
 - Patient-centered care, not facility-centered
 - Health data residing on national or regional platforms, not facility-specific
 - Audiology Program vision
 - Broaden the usage and corporate value of audiometric information
- Why is a repository beneficial?
 - Because it allows us to do things like this... (the rest of the presentation)

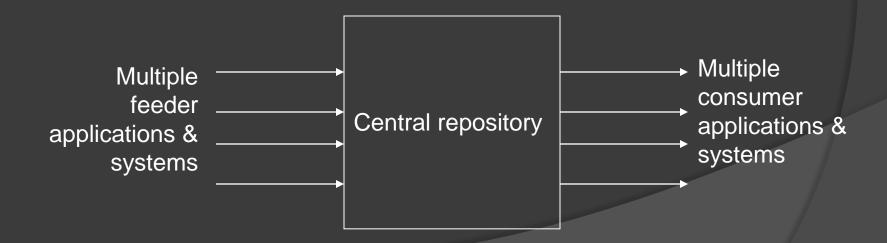
Sharing of information between applications



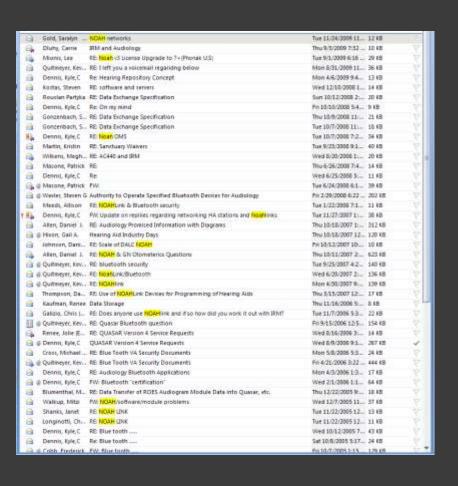


 Initial example of 'feeder' and 'consumer' applications using the repository





The NOAH - VA Link

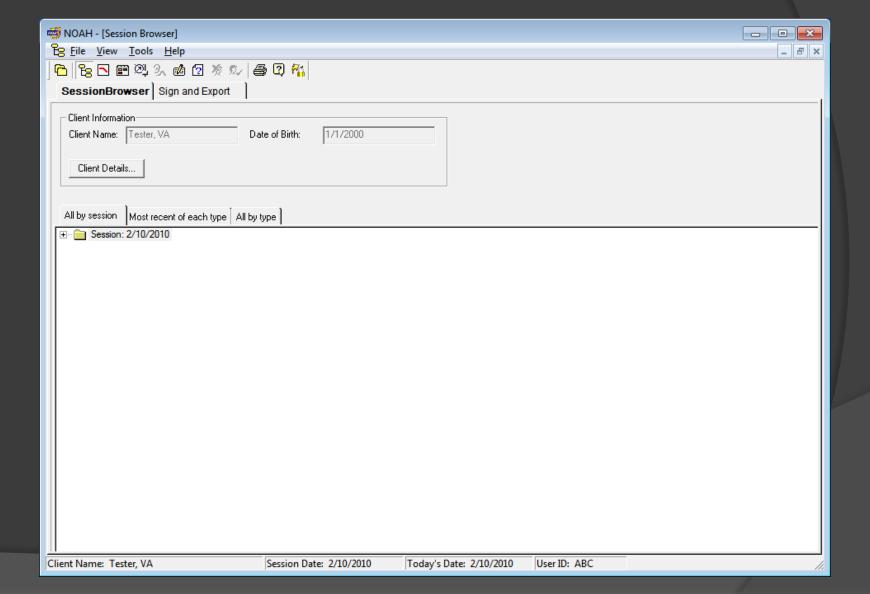


- NOAH data exchange under development
- DALC working with HIMSA developers
- What will this data exchange look like in VA?

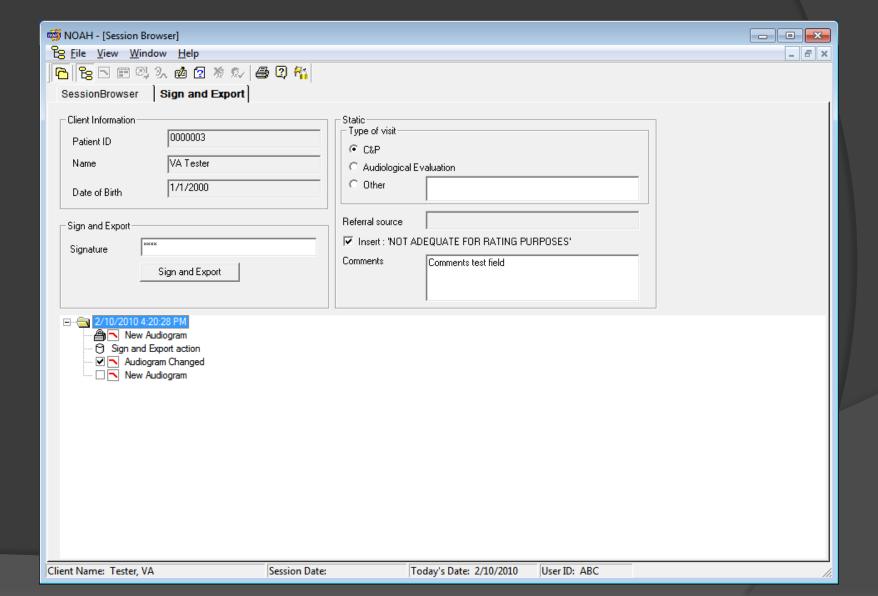
Sequence/flow of data exchange (NOAH to VA)

- Audiogram collected through NOAH (NOAHAud or 3rd party audiogram module)
- Audiogram signed and exported to VA repository (similar to QUASAR module functionality)
- Audiogram available to VA applications

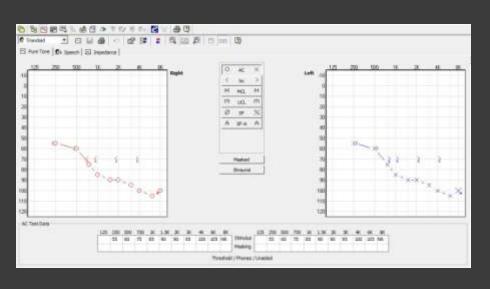
NOAH v3.8

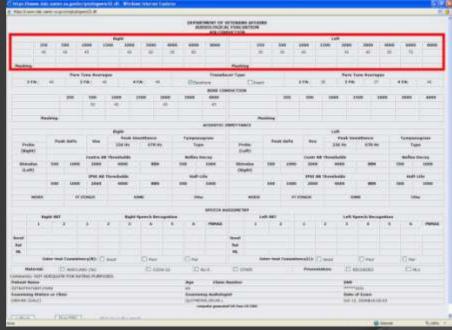


NOAH v3.8



Data collected in NOAH is available to VA

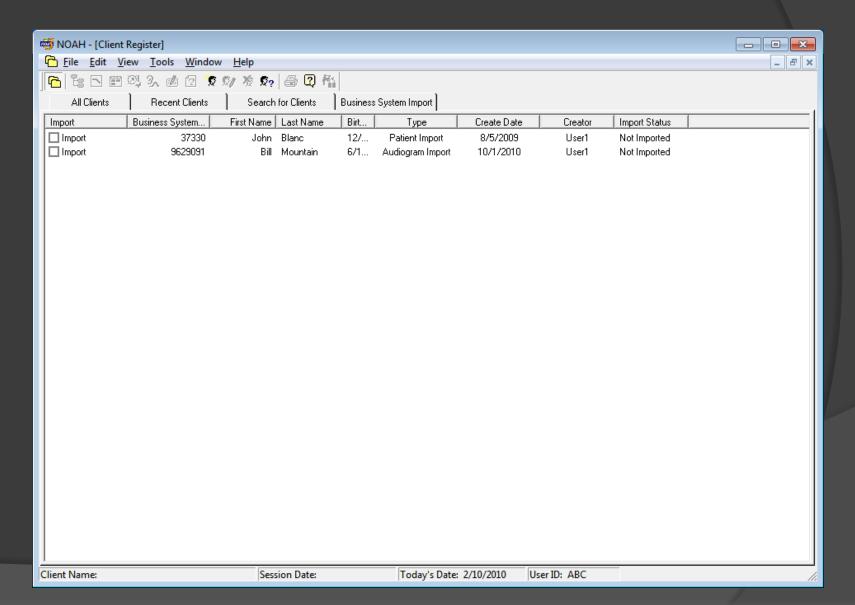




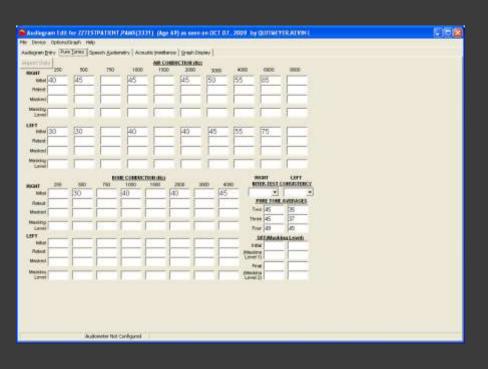
Sequence/flow of data exchange (VA to NOAH)

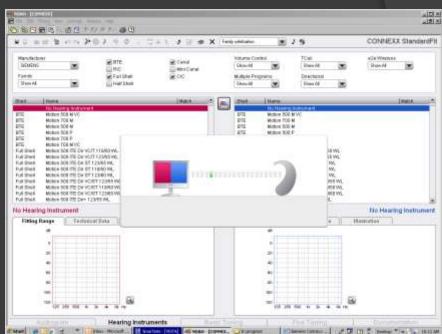
- Audiogram collected through VA/QUASAR module
- Audiogram signed and exported to VA repository
- Audiogram delivered to originating station's NOAH database
 - (also available to NOAH at other stations)
- Audiogram available in NOAH for fitting modules, etc.

NOAH v3.8

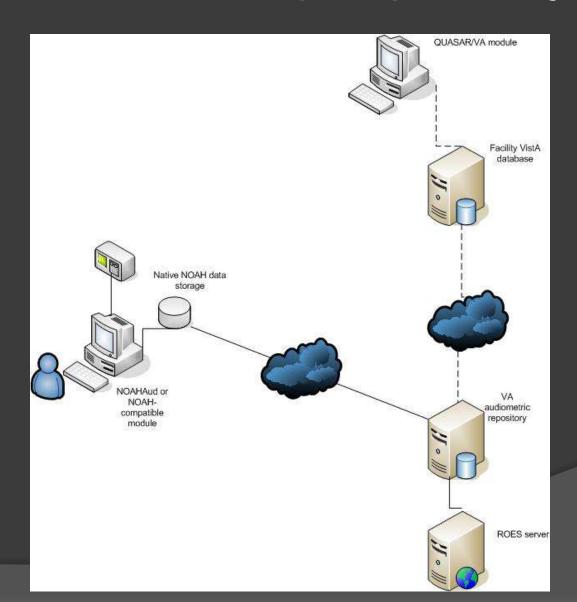


Data collected in VA module is used by NOAH fitting module

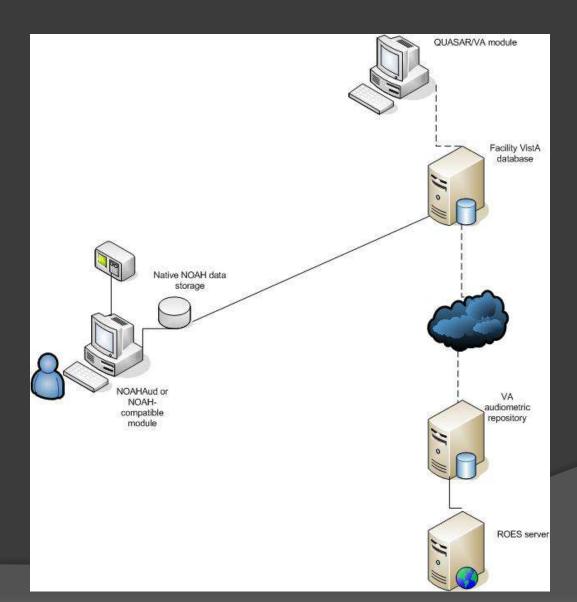




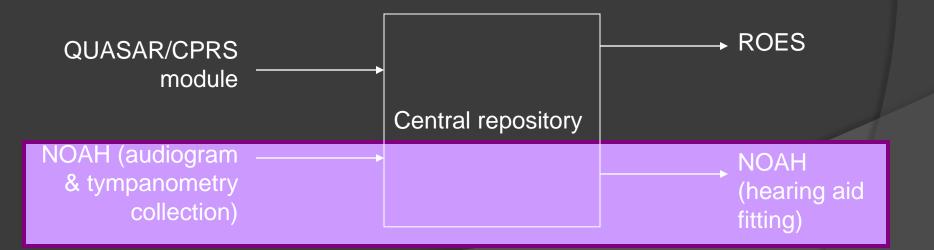
NOAH Link to DALC/Repository



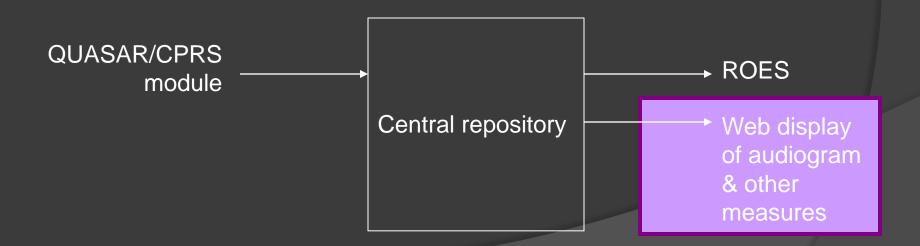
Why not direct link to local VistA?

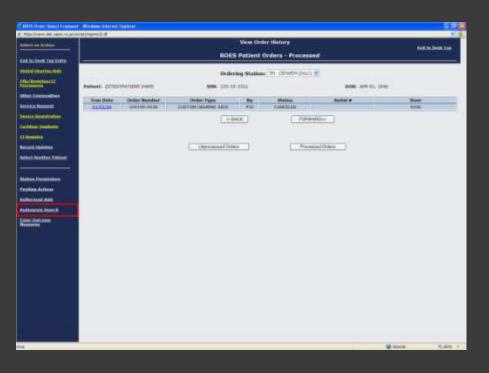


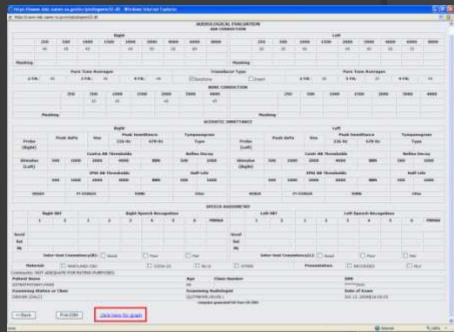
- Goals of the NOAH Data Exchange initiative
 - NOAH will feed data into the repository
 - NOAH will consume data from the repository

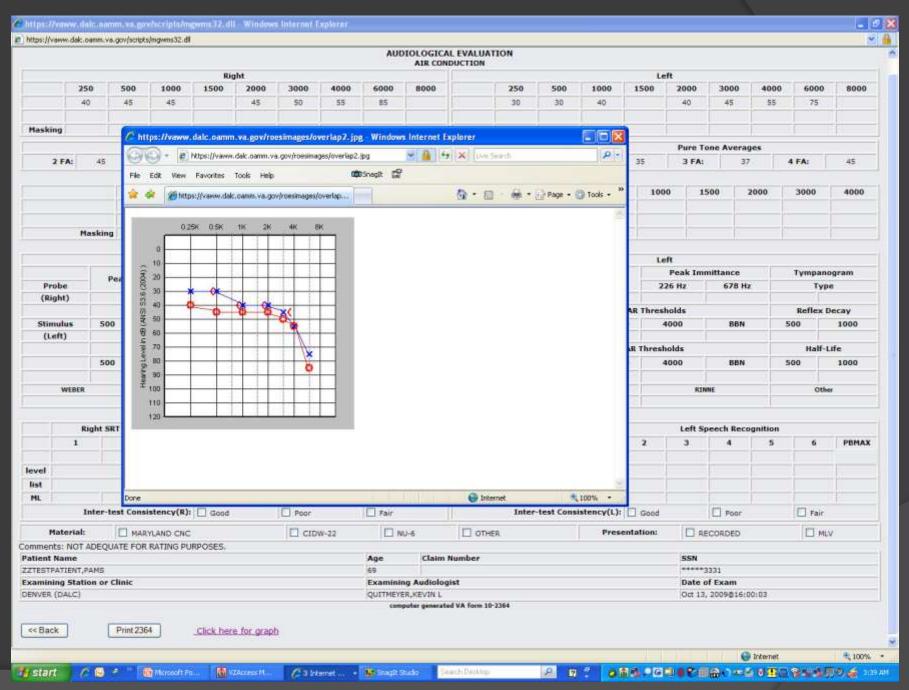


- A web-based display/output application accessible from the desktop or CPRS will replace or augment the current QUASAR display
- Advantages:
 - access to any audiogram in the repository, rather than only those available locally
 - Access by authorized providers independent of the QUASAR module

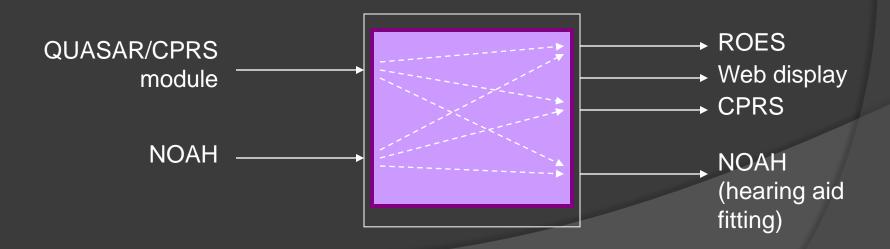






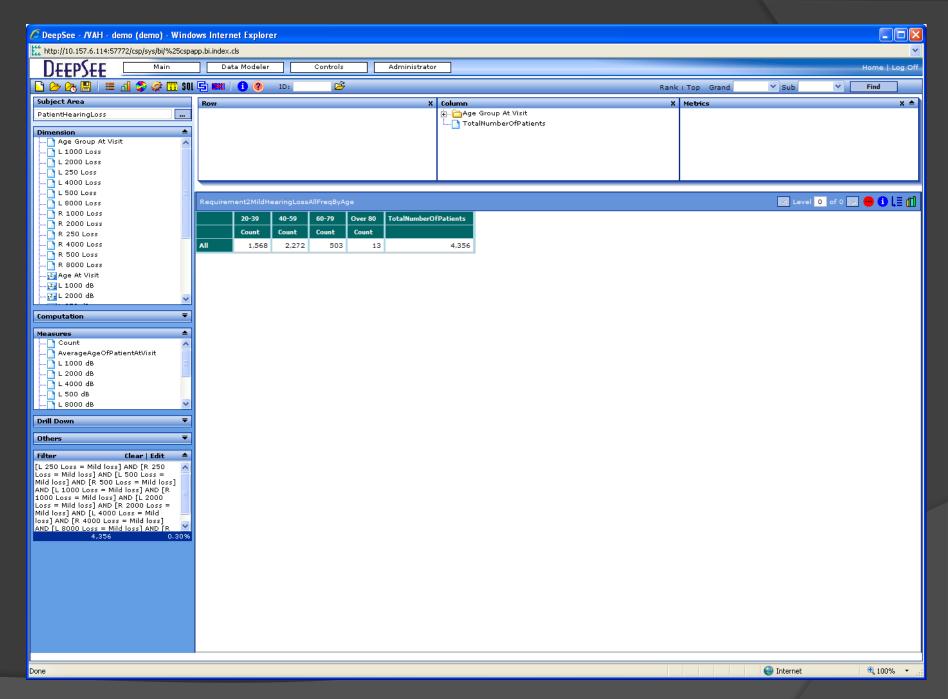


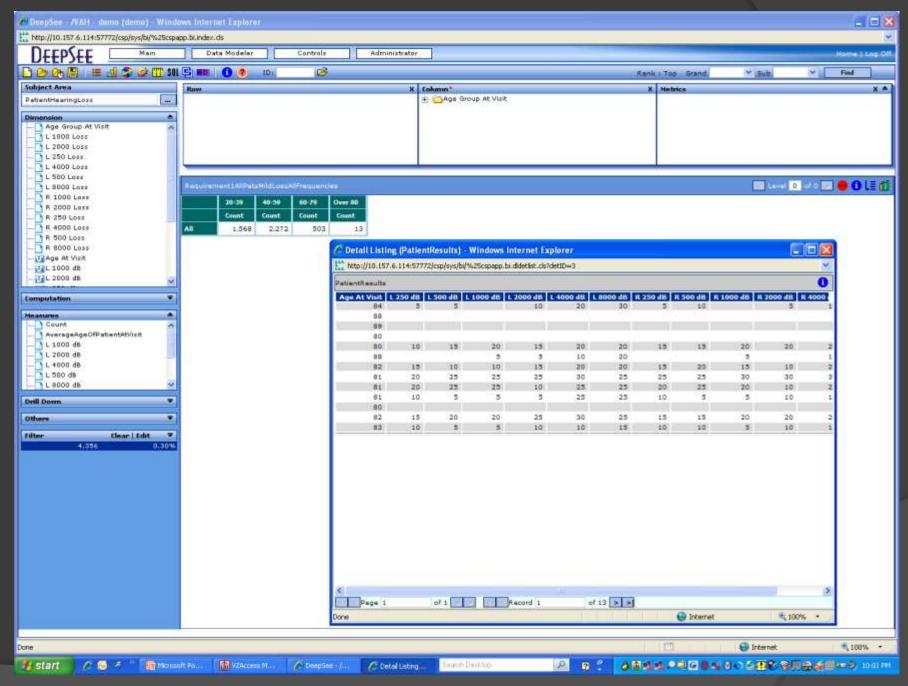
 Note that <u>any</u> consumer system will be able to consume data fed into the repository by <u>any</u> feeder system

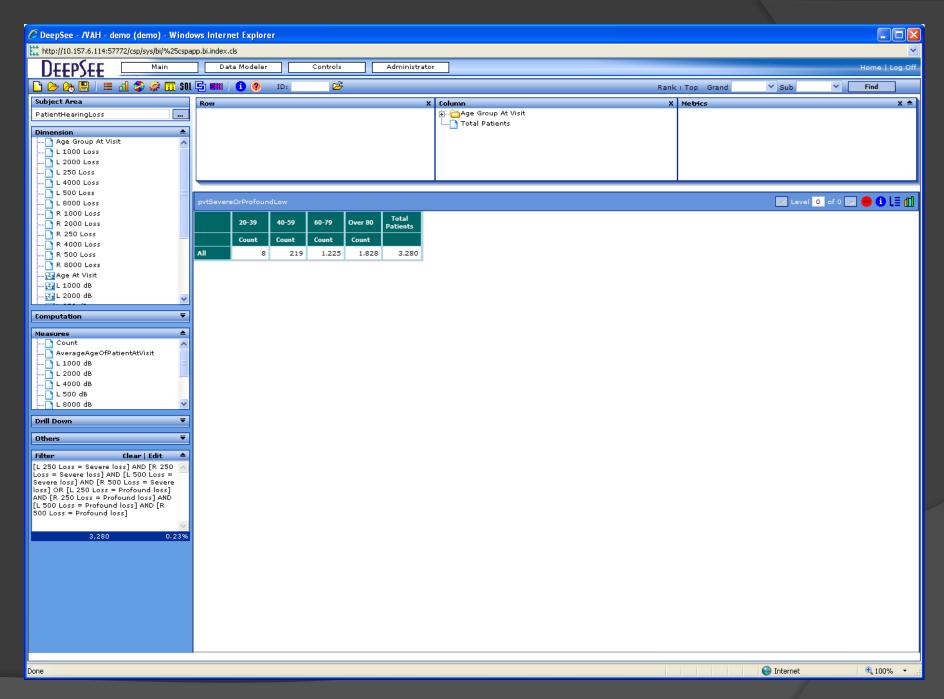


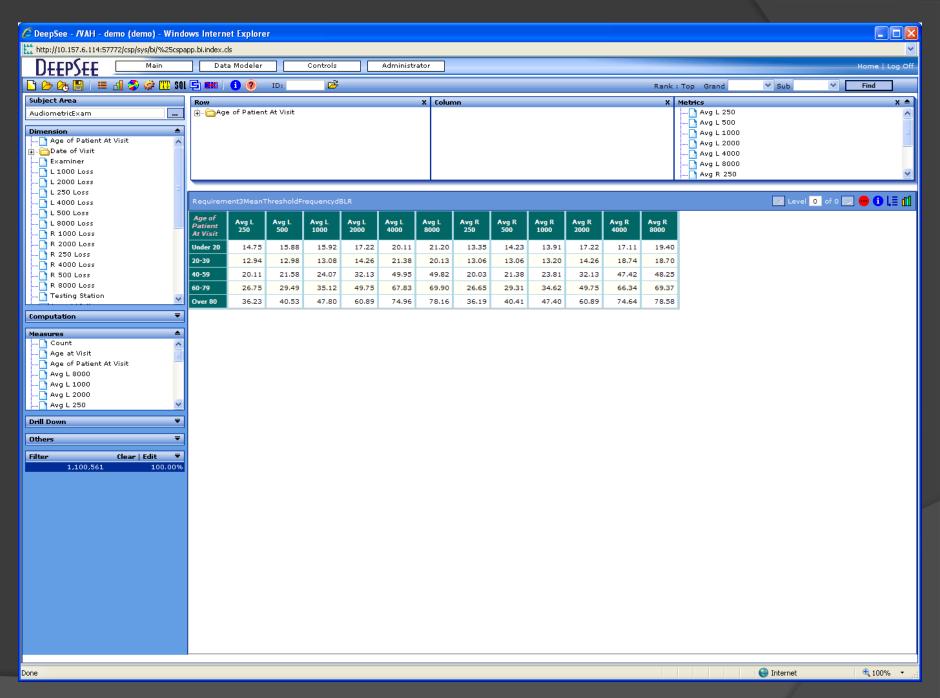
Business Intelligence Preview

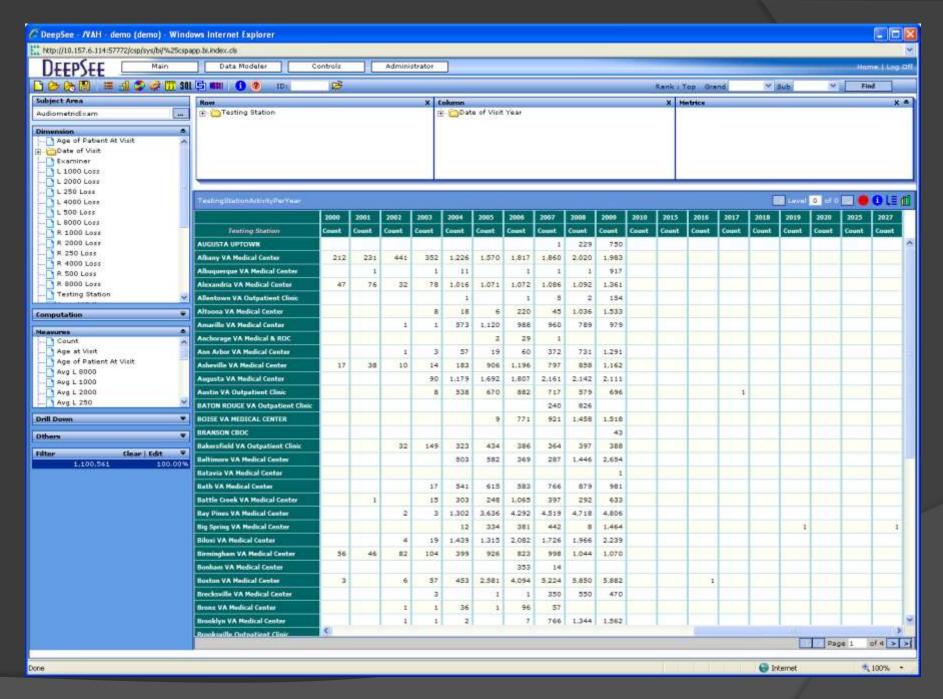
- Business Intelligence pilot
 - Audiometric data
 - DALC Supply Fund data
- Test drive...

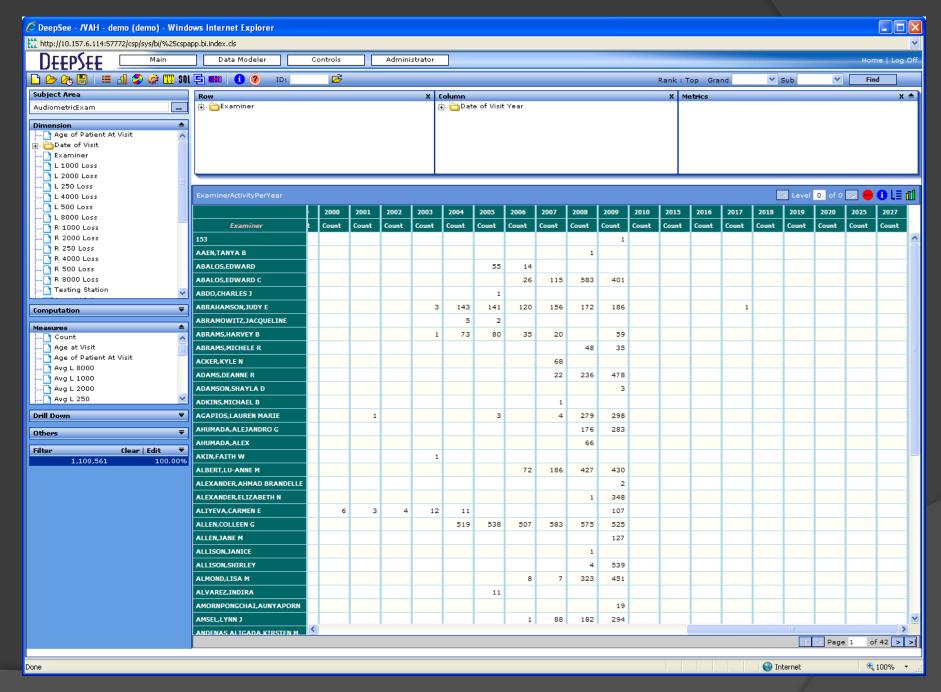










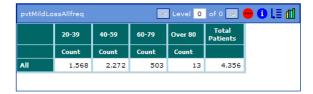


http://10.157.6.114:57772/csp/sys/bi/%25cspapp.bi.index.cls

Done

Patient Populatation by Varying Hearing Loss (Either Ear)

Patients who have mild hearing loss across all frequency ranges



Patients who have mild high frequency hearing loss



Patients who have severe or profound low frequency hearing loss



Patients who have moderate mid-frequency and severe high-frequency hearing loss



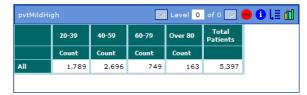


Patient Populatation by Varying Hearing Loss (Either Ear)

Patients who have mild hearing loss across all frequency ranges



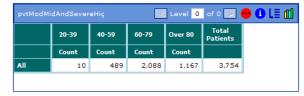
Patients who have mild high frequency hearing loss



Patients who have severe or profound low frequency hearing loss



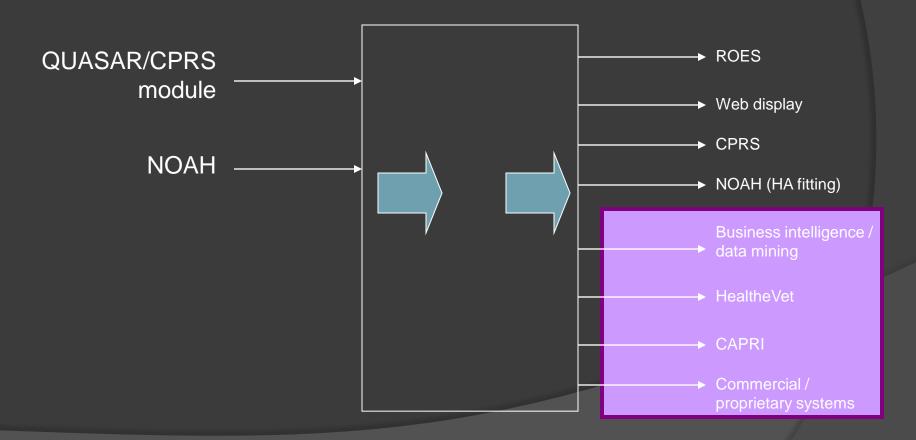
Patients who have moderate mid-frequency and severe high-frequency hearing loss



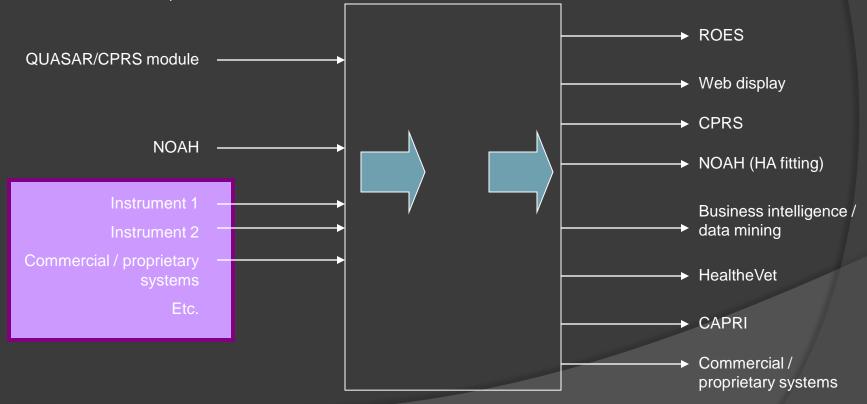
Where we want to go with BI

- Lessons learned organization of data
- Transition toward production environment
- Dashboard access for all VA Audiologists
- Analyzer access for core SME's
 - DALC SME's
 - VA Audiology SME's
- BI objective
 - Put the 'body of knowledge' to work to improve hearing care in VA and beyond

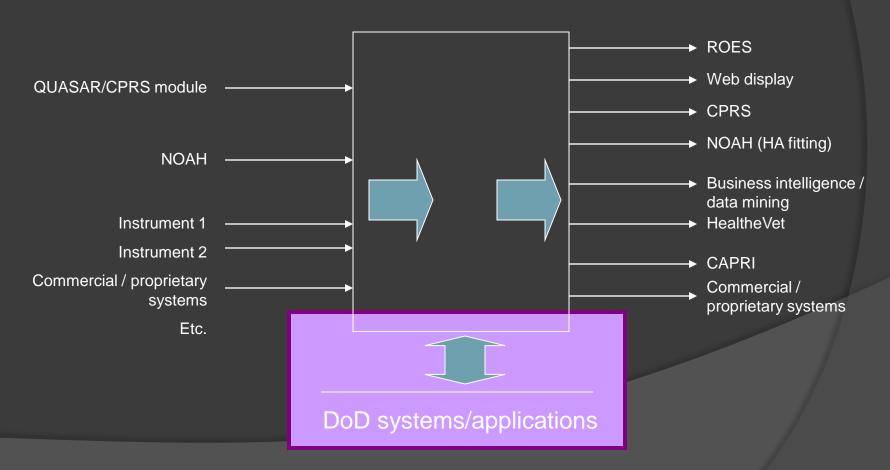
Potential additional consuming applications



- Potential additional feeder applications, including diagnostic instruments or proprietary systems
- Repository model extended to management of tympanometry, Real Ear Measures, etc.



Extending applicable technologies and tools to DoD Audiologists



DALC Presence at JDVAC 2010

- DALC Contract Award Process
 - Monday @ 1:00
- ROES for DoD
 - Wednesday @ 11:00
- DALC Future Applications
 - Wednesday @ 3:00

- Kim Whorton
- Roy Horne
- Ray Blomquist
- Gail Hixon
- Steve Wilson
- Tim Grauer
- Linda Hofferica
- Don Siewert
- Pam Urrutia
- Mary Ann Blumenthal
- Kevin Quitmeyer

Conclusion

- Kevin Quitmeyer
- ROES Program Director
- VA Denver Acquisition & Logistics Center
- **■** 303-914-5160
- kevin.quitmeyer@va.gov