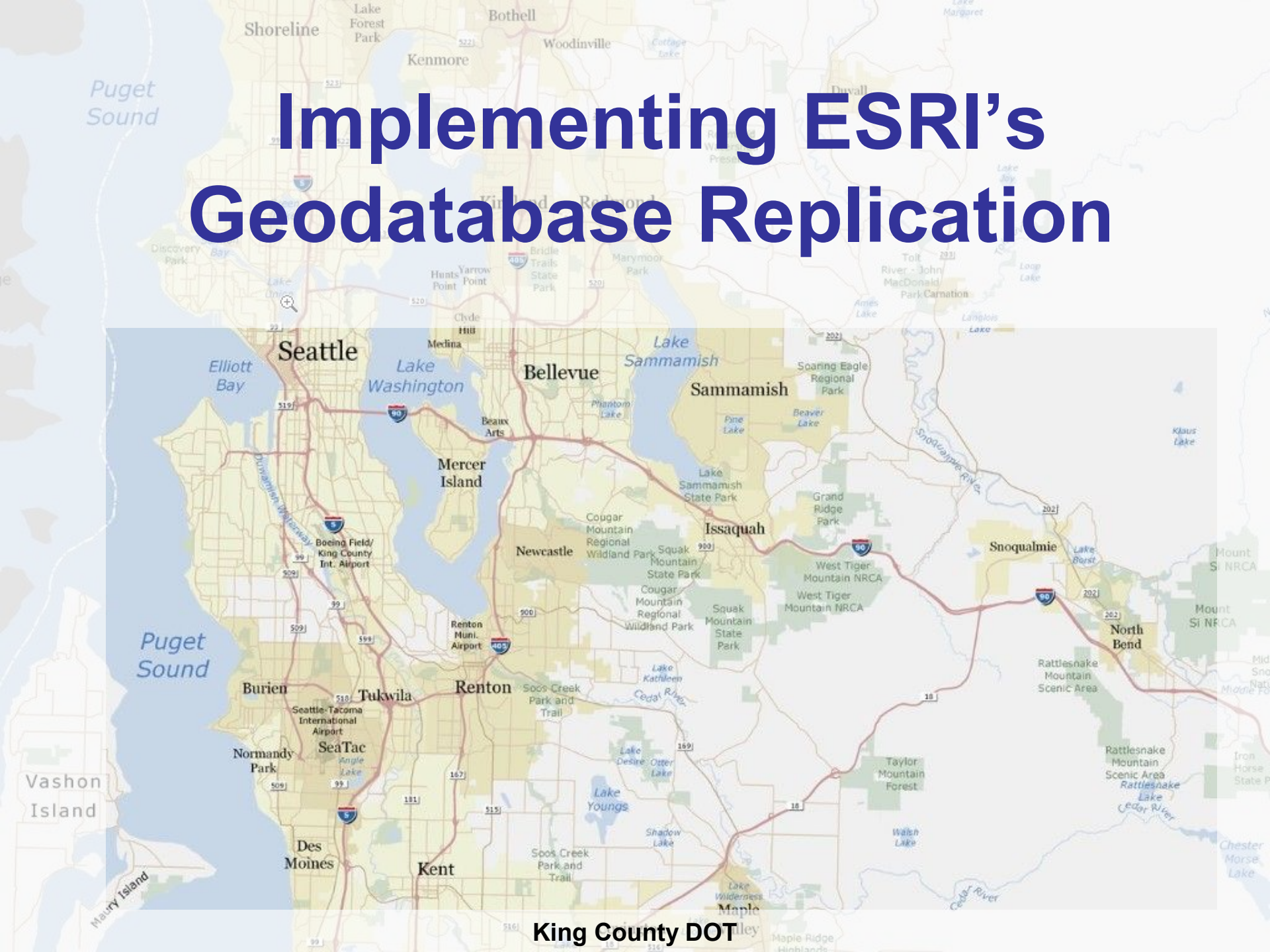


# Implementing ESRI's Geodatabase Replication



# Objectives

- Share and edit transportation street centerline data with a common schema
- Provide editing capability for a variety of agencies
- Exchange data edits easily and quickly

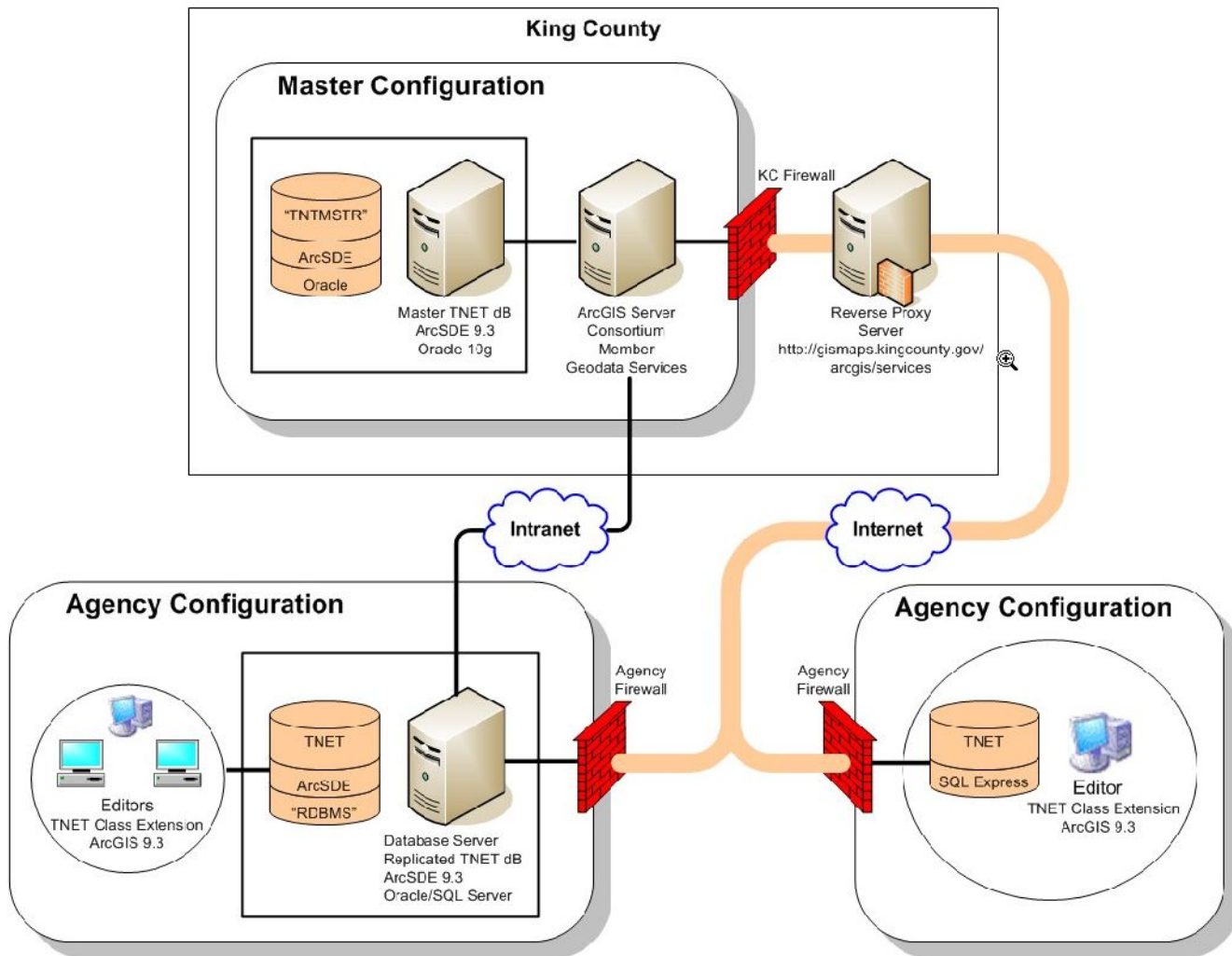
# Background

- Transportation centerlines
- Simple feature class
- ~156k features
- Multi-purpose

# Geodatabase Replication

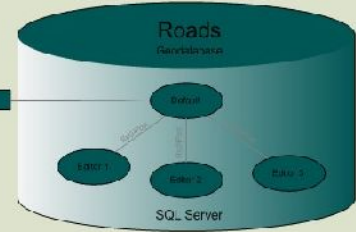
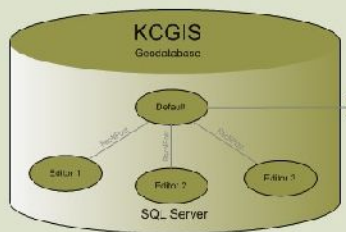
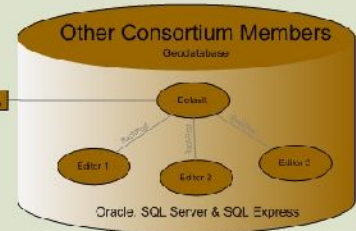
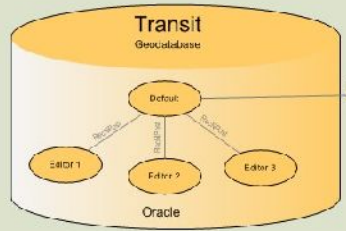
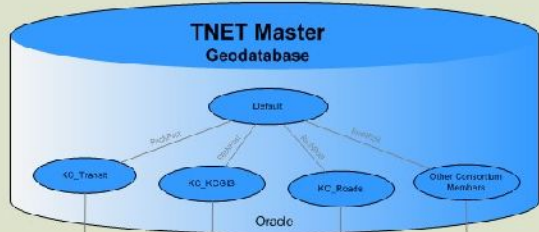
- Evaluation / Proof of Concept
  - January 2008
- Implementation
  - July 2008

# System Architecture

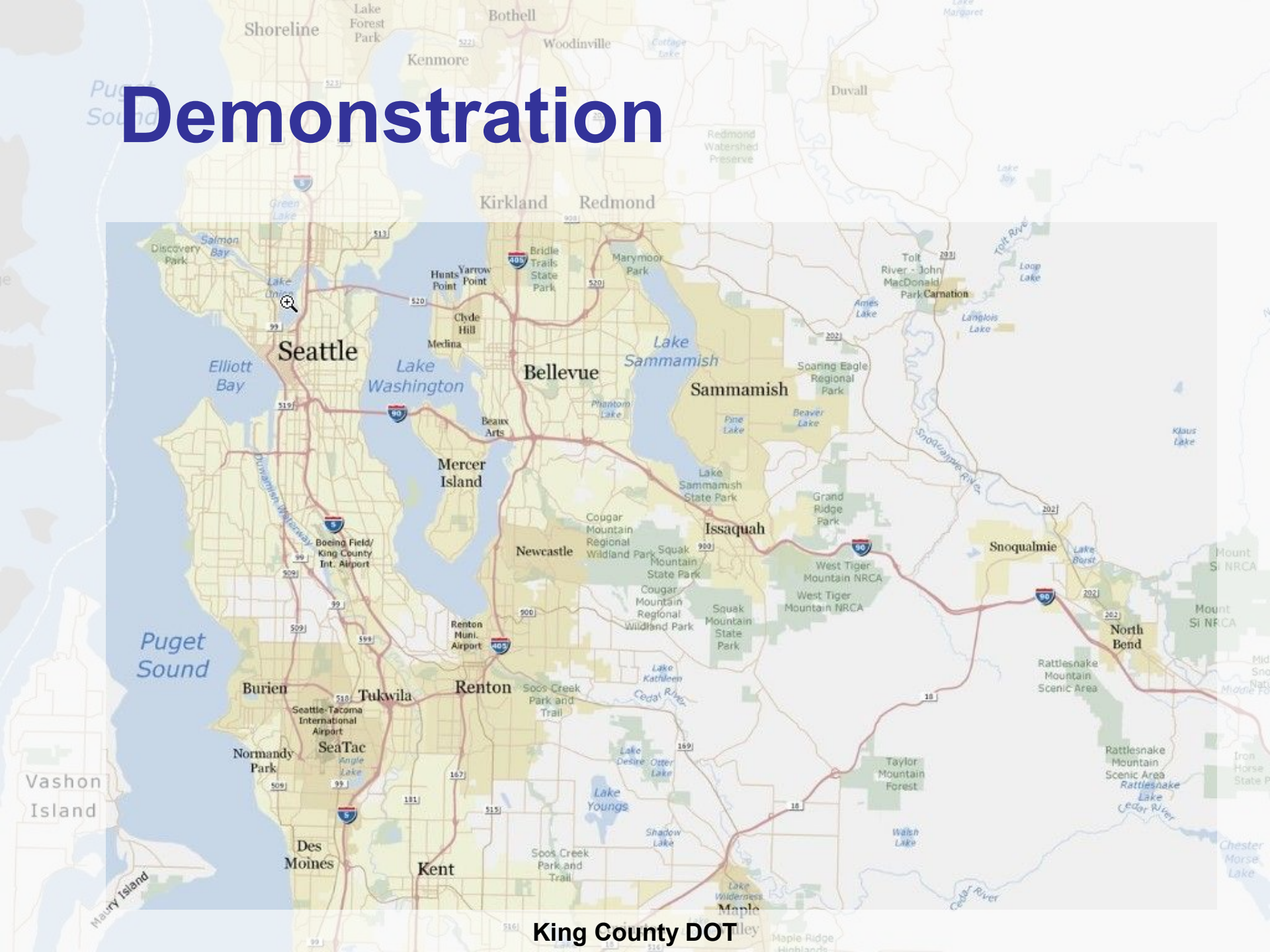


# Named Versions

- TNET Dataset to replicate
- TNET.ADDRESS
  - TNET.TNAME
  - TNET.LINK
  - TNET.LINK\_RESTRICT
  - TNET.LINK\_TNAME
  - TNET.LINK\_LINK\_TNAME
  - TNET.LINK\_LINKRESTRICT
  - TNET.LINK\_LINKMODE
  - TNET.LINK\_TMODE
  - TNET.LINK\_TNAME
  - TNET.LINKMODE\_TURNRESTRICT
  - TNET.LINKNAME\_ADDRESS
  - TNET.TNAME
  - TNET.TNAME\_LINKNAME
  - TNET.TRANS\_NETWORK\_MV
  - TNET.TURN\_RESTRICT



# Demonstration



King County DOT

# Lessons Learned

- Have parity in SDE and ArcGIS Server (AGS) versions
- AGS configuration settings for replicating large datasets
  - AGS web.config: `<httpRuntime executionTimeout="3600"`
  - Map Service: `<MaxRecordCount>5000000`
  - Geodata Service: `<MaximumRecords>5000000`

# What's next?

- Test TNet replication on the SQL Server Express platform
- Expand the consortium membership

# Questions?

