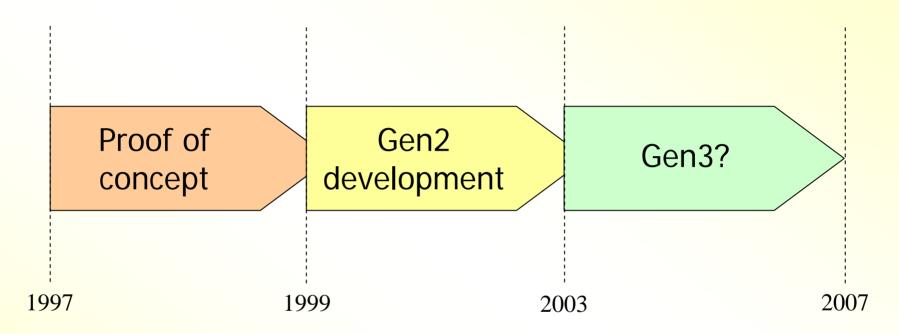
Future Plans for TLUMIP

Third Oregon Symposium on Integrated Land Use-Transport Modeling 23-25 July 2002

Rick Donnelly & Bill Upton

Looking Back

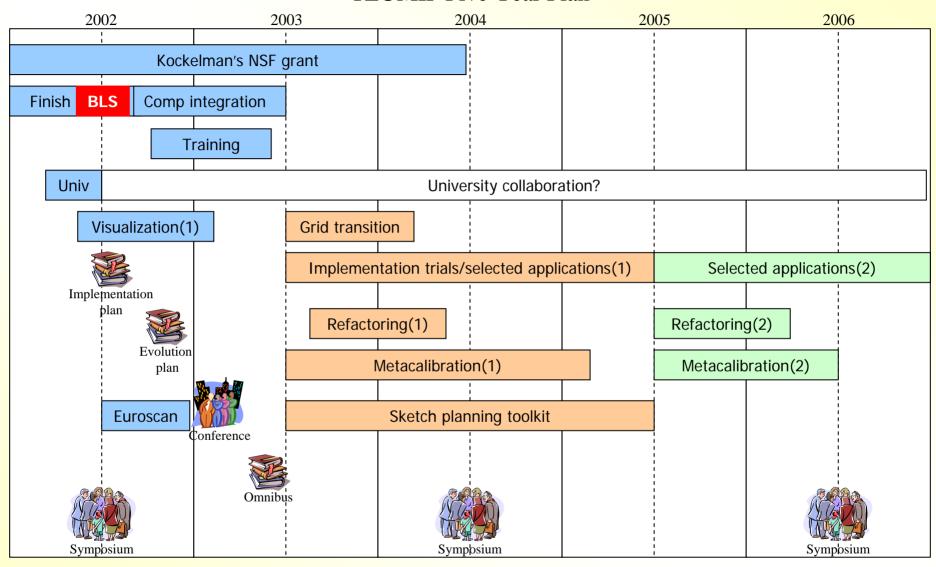


Meeting Outcome

- Refactoring code to distributed architecture
- 2. Visualization
- System calibration
 ("metacalibration")
- 4. Environmental analytics (AQ, sustainability, EJ, etc)
- 5. Selected applications and implementation trials
- Sketch planning toolbox and conference
- 7. Omnibus
- 8. Symposia

- Model integration and linkages
- 10. Grid-based representation
- 11. Coaching and training
- 12. Data acquistion
- 13. Model evolution
- 14. Implementation plan
- 15. Public policy simulator
- 16. University collaboration

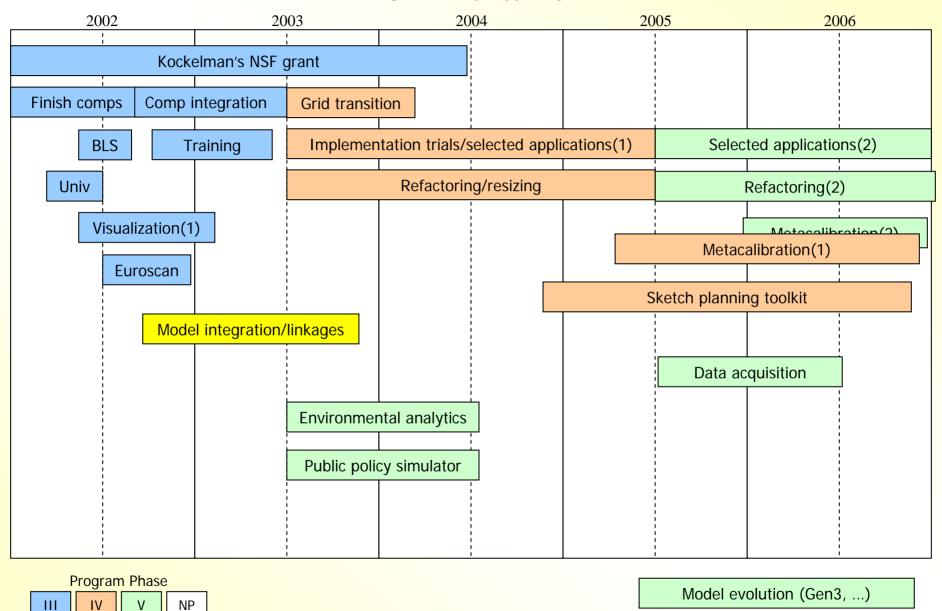
TLUMIP Five Year Plan



Program Phase

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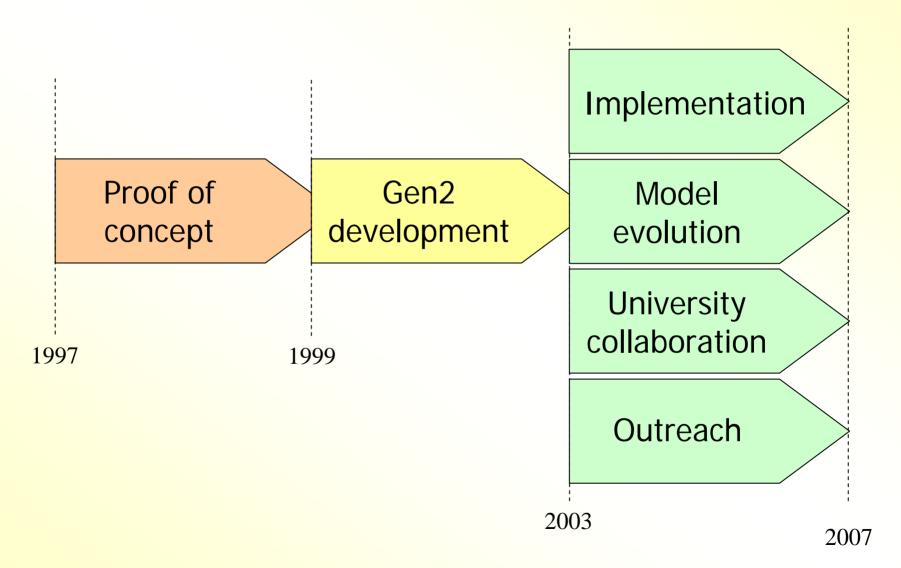
TLUMIP Five Year Plan



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The Past to the Present



Implementation

- Technical assistance
 - Coaching
 - Teaming
 - Transfer
- Visualization
- Software optimization
- Hardware strategy

Software Optimization

Original plan

- Pure and simple OOP code
- Optimize for speed
- Multi-thread the code
- Distributed code

Enlightened plan

- Pure and simple OOP code
- Apparent optimization
- Distributed tasks (DAF)

Distributed Application Framework (DAF)

- Tasks, queues, and messages
- Lightweight application
 - Trade flexibility for portability
 - Adaptive design
- Pure Java
 - OS independence
 - Native multithreading
- Second build in use

University Collaboration

- Opportunity for Oregon university participation
- Work from their strengths
- Work on their timelines
- Autonomous track
- Meaningful contribution

Topics

- Integrated land usetransport modeling
- Travel choice behavior
- Activity-based travel analysis
- Traffic science, control systems, and intelligent transportation systems
- Network dynamics and disequilibrium
- Simulation analysis and modeling

- Object-oriented programming
- Database systems
- Spatial analysis tools and techniques
- Non-parametric models

Outreach

Profession

- Symposiums and workshops
- Case studies and white papers
- Papers, publications and presentations
- Resuscitate TMIP land use track
- Global network
- Motivate NCHRP and pooled funds projects

Decision-makers

- Case studies
- Brief ODOT executives, OTC members, and legislators
- Interagency support
- Bridge Limitation Study
- Visualization and decision support systems

Questions for Bill?