Full Migration to STL

- STL interface implementation completed in July 1999 (geant4.1.0)
  - 8 wrapper classes introduced
  - RW collections identifiers renamed to G4RW to resolve conflicts
  - RW dictionaries replaced by STL map
- **Full migration to STL approved by TSB in September 1999 to be gradually implemented**
  - within 1 year

Categories still NOT migrated...

- global
- tracking
- run
- readout
- materials
- intercoms
- graphics_reps
- g3tog4
- event
- digits+hits
- geometry
- visualization
- processes
  - management
  - hadronic
  - EM-lowenergy

What needs to be modified ?

- All occurrences of G4RW wrappers with STL `vector` containers
  - to be taken care by Category Coordinators
- Access to G4PhysicsVectors defined in *global* Category.
  - requires central coordination
- Usage of special `G4String` features when migrating to STL `string`.
  - requires central coordination

Rogue Wave wrappers in use...

- G4RWPtrOrderedVector
- G4RWValOrderedVector
- G4RWPtrVector
- G4RWValVector
- G4RWPtrSortedVector
- G4String

Reasons for migration...

- Maintainability
- Performance
- Complexity
- Uniformity
- Coherence
- Portability

Just wishes…?

- Migration plan of each Category
  - by next TSB (not during this Workshop…) ?
- Validation (and removal of STLinterface) by June 2001 ?