



NA-MIC

*National Alliance for Medical Image Computing*

*<http://na-mic.org>*

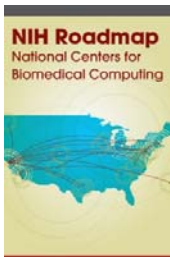
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# **NA-MIC Science Fair**

***“Sneak Preview: The NA-MIC kit”***

**William J. Schroeder**

**Kitware, Inc.**



**National Centers for Biomedical Computing 2008 AHM  
Natcher Conference Center, National Institutes of Health**





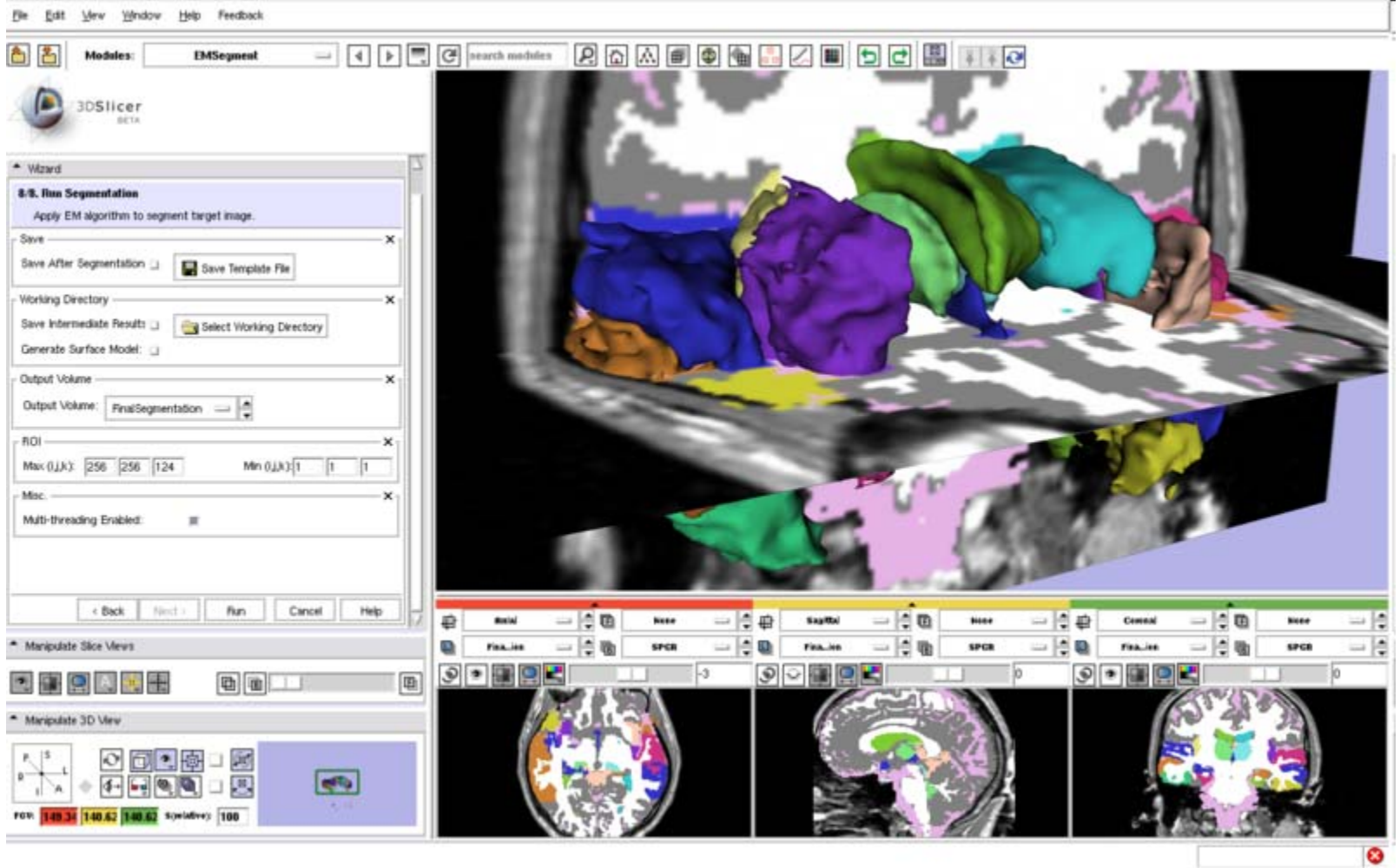
# NA-MIC Kit Goal

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- Meet the computing needs of
  - Clinical Researchers
  - Biomedical Engineers
  - Algorithms Developers



# Delivery Platform: 3D Slicer

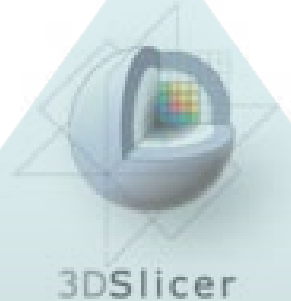


William J. Schroeder.  
National Alliance for Medical Image Computing



# The NA-MIC Kit

- Applications



- Toolkits



- Software Process and Framework



CMake



CTest

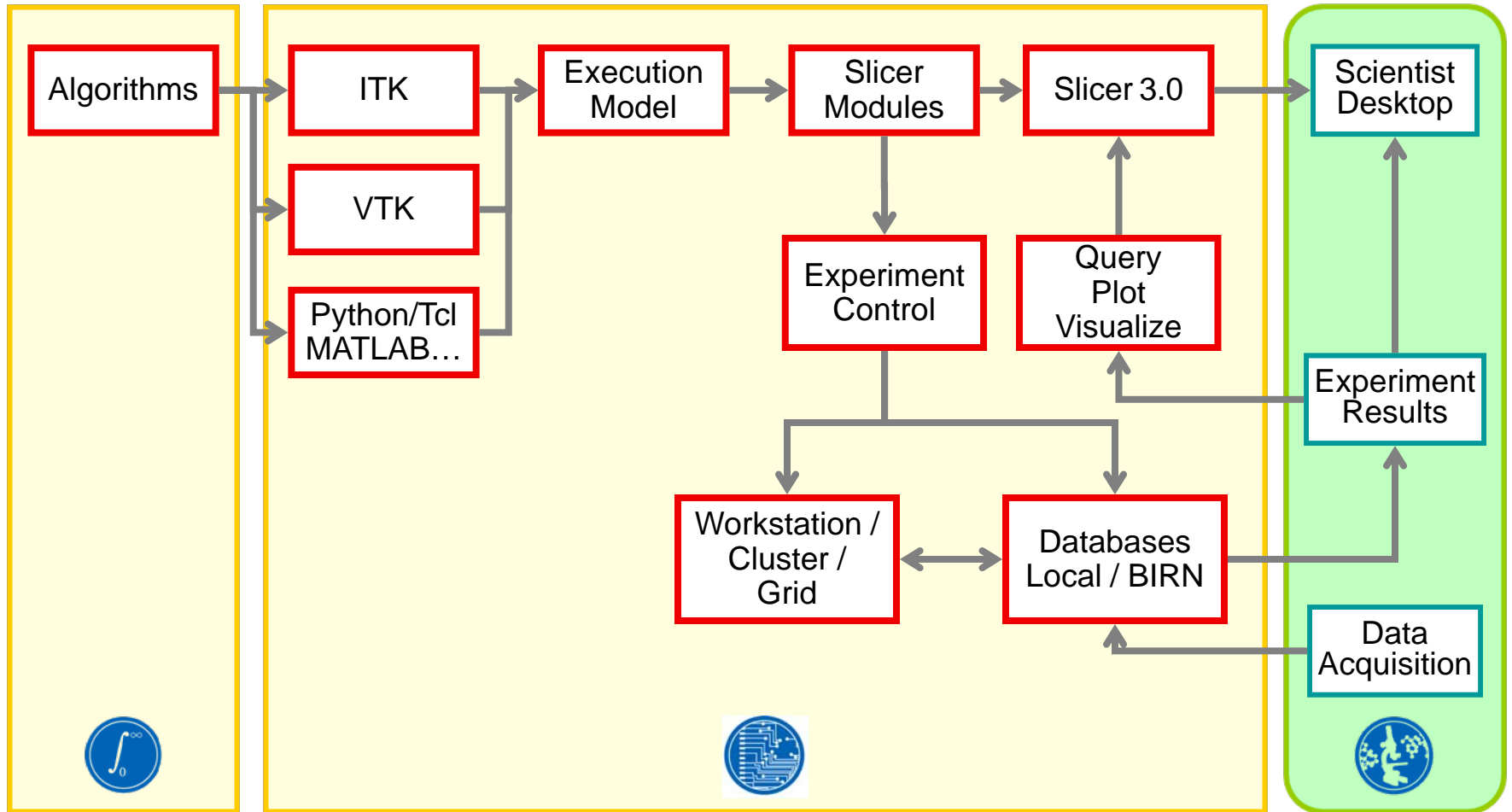
CDash / CPack



BatchMake

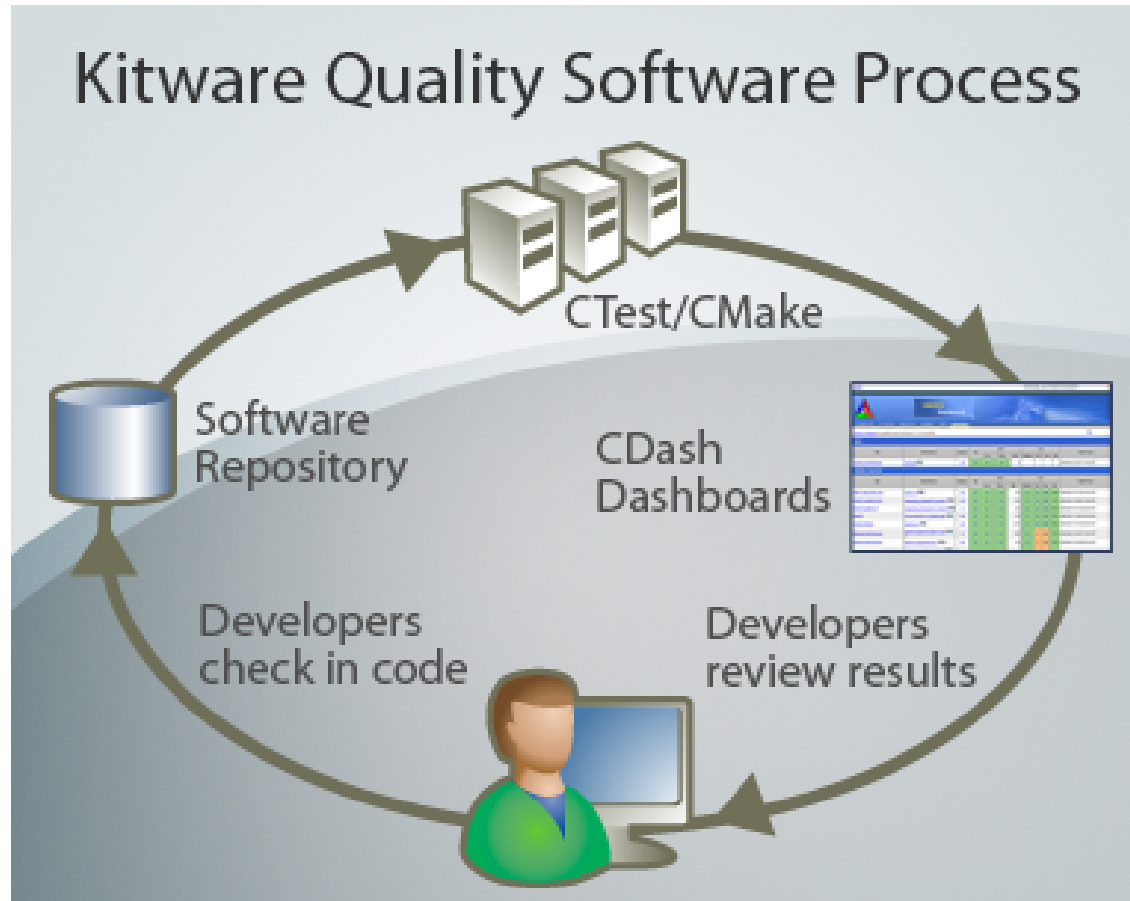


# Slicer Architecture





# Software Process





# Open Source / Open Science

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- Promote the use of our software tools
- Grow collaborative communities
- Reap, at low-cost, improvements to the NA-MIC Kit infrastructure
- Practice Open Science
  - Reproducibility
  - Access to data, software and publication



# Proud Accomplishment

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- Outreach and Community Support
  - Public web servers: 10 million web hits/month
  - Approximate Downloads
    - Slicer: 38,000 / year
    - VTK: 7,000 / month
    - ITK: 5,000 / month
    - CMake: 700 / day (>200,000/year)
    - Numbers do not include CVS/SVN access
  - Community size:
    - Measured in tens of thousands of users
    - Hundreds of active developers (~250)



# Science Fair

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- Meet Dr. Sonia Pujol