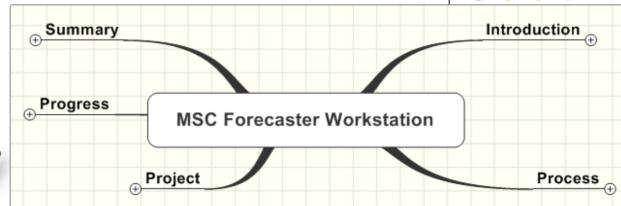
MSC Forecaster Workstation

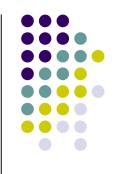
9th Operational Workshop ECMWF, Nov 2003

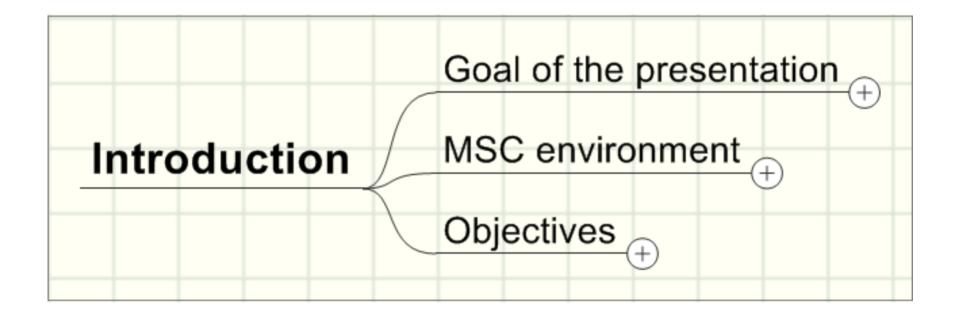






Introduction





MSC is part of NinJo consortium



How did we get there? How is it working?



MSC environment



- Organizational
- Software aging
- New data sources
- Forecasters production of products to meet many needs
- Forecasters not writing products but interacting with data



Objectives

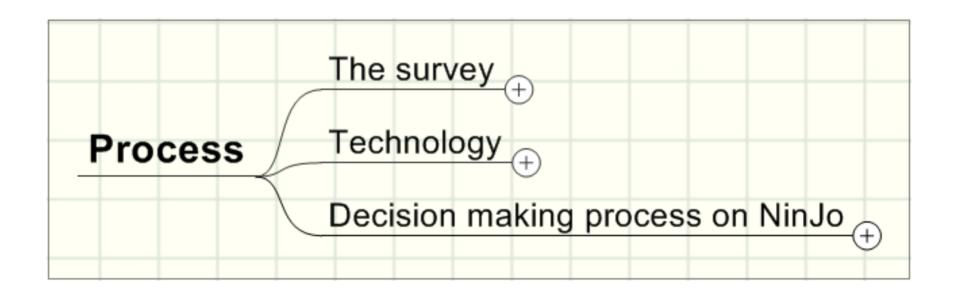


- Unify the interface
 - Integrated applications
- Reduce duplication
- Platform for future development
 - Applications hitting the wall
- Need to meet new needs due to restructuring



Process







The internal survey



- 40+ applications
 - Most software used only in office which built it
 - ~ 5 applications used across the country
 - Much duplication
 - No standards
 - Poor software support
- Data structure an issue
 - Applications copy data for use
 - Not clear on what is "official"
 - Hard to incorporate new data



Design team work



- Assessed systems from an architectural point of view:
 - How the systems are organized
 - How functional components are distributed
 - How the components interact
- No system fully met our requirements as it stood
- NinJo was the best option:
 - Has a new, well designed architecture
 - Is still in the development stage so MSC can affect the process to get what we need
 - A lot of the visualization work is already done
 - Presents practical hurdles of working in an international team
- Technology



Decision making process on NinJo

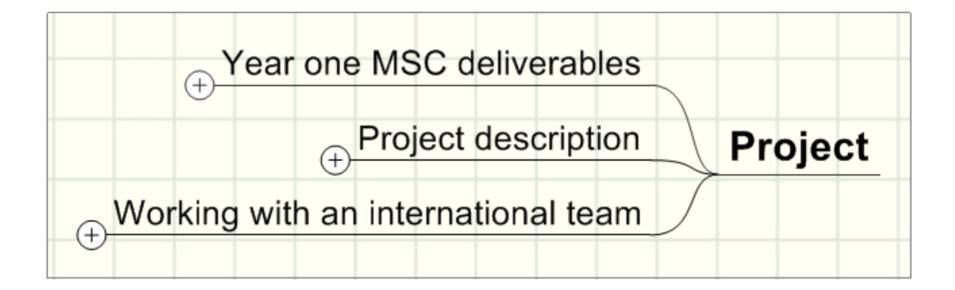


- Opportunity
 - Timing
 - Same direction we would have gone
 - Savings
- MOU conditions
 - Not slow down the project
 - Contribute for past work of consortium
 - Contribute at equal rate to the end of the project



Project







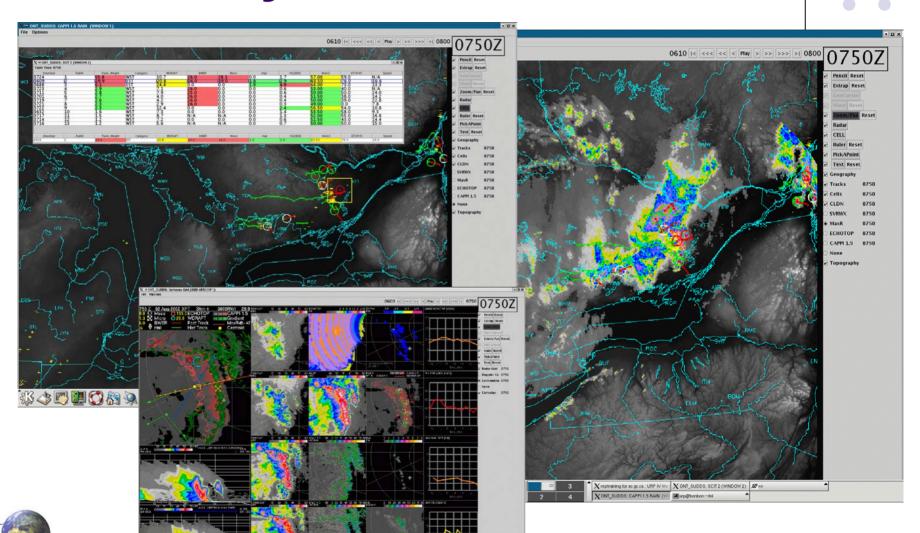
Year one MSC deliverables



- Radar processing (CARDS system)
 - Processing volume scans
 - Integration of many radars in display
 - Extensive use of algorithms
- Interactive Graphics
 - Preparation of products such as Sigwx charts
- Implementation
 - Work within MSC environment
 - Order brought to data by related project



CARDS System



Project description



- Project includes ~ 25 staff; \$1.2M (\$2.2M)
 - "Business side"
 - User committee
 - Evaluation team
 - "Informatics side"
 - Teams for Radar, Interactive Graphics and Implementation

Schedules

- Vr 0.7 being evaluated
- Vr 1.0 December 2004
- January 2005 start of implementation



Working with an international team



Challenges

- Vision
- Requirements
- Specifications
- Processes/organizational culture
- Communications
- Team building
- Task assignments

Cross Atlantic co-operation

- Bridgehead very effective (not cheap)
- Technology supports information sharing
- Tele-conferences
- Software control
- Adopting effective processes
- Language working for MSC

Plus

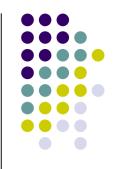
- Work in progress
- Co-incidence of objectives
- Design and structure
- Buy into working standards
- Leverage effort
- New ideas and approaches

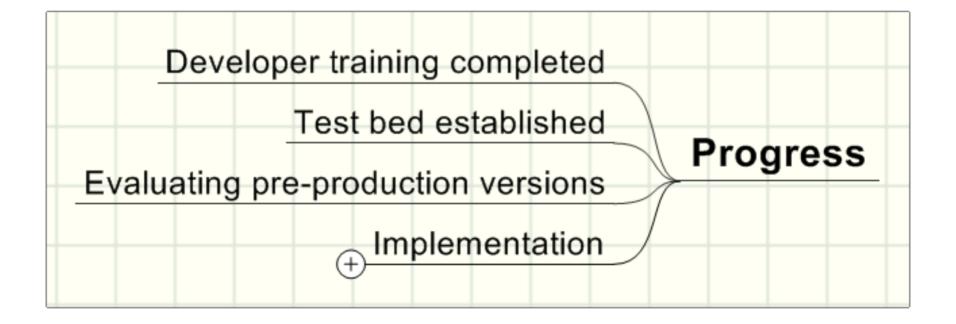
Negative

- One of 5 partners
- Dependence on others seeing the problem your way
- Cost of travel and telecom
- Team Building
- Communications
- Currency fluctuations



Progress

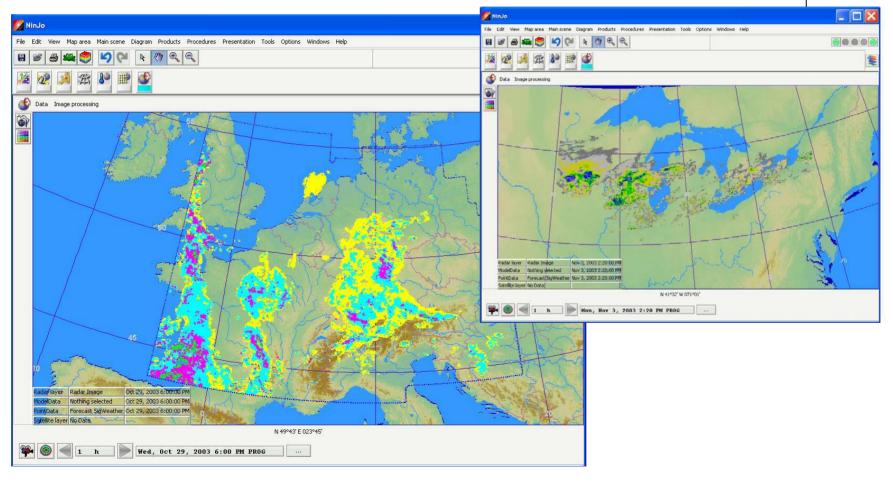






Radar in NinJo 0.7







Evaluation Team



- Evaluated NinJo 0.61and set for NinJo 0.7
- Developed evaluation table ~ 250 functions
 - Priority
 - Functionality
 - Speed / Performance
 - Usability
- Implementation
 - Training
 - Techniques development
 - Kill lists



Summary



	Work in progress	
Co-operation among forecaste	ers and informatics	
⊕ Cross Atlantic co	o-operation working	Summary
Very p	promising progress	
Cont	inued co-operation	



MSC Workstation Team







Michel Flibotte Richard Desjardins Trevor Falla Martin Lehman Paul Van Rijn Tom Gibson Norm Paulsen Tom Ostry Samuel Sieb Paul Van Rijn Tom Gibson Norm Paulsen Dan Magosse Bob Paterson Dan Magosse Jack Dunnigan Aiman Younis Ronald Frenette Karsten Kehler Lorne Potter Jean Brunet Steve Lapczak Verne Lorde Bryce Lee Wendy Yuen Anthony Marzotto