



RAMS Plus User Group

AP9 TIM

Viewpoint- RAMS Plus Users

The screenshot shows the RAMS Plus software interface. The title bar reads "RAMS Plus L:\Proyectos\DesarrolloSW\Norvase\MFF\ESCENARIOS_RAM\pruebasMFF\pruebasMFF.rams". The menu bar includes "File", "Edit", "View", "Tools", "OCI", "Simulate", "Graphics", and "Help". The toolbar contains various icons for file operations, simulation, and graphics. The main workspace displays a dark background with a network of blue and green lines representing flight paths or trajectories. Numerous data points are scattered across the workspace, each labeled with alphanumeric codes and performance metrics. The text "VIEWPOINT RAMS Plus Users" is overlaid in large white font in the center. Below it, the text "Sara Mesón Mancha INECO" and "RAMS Plus User Group Meeting" is displayed. The status bar at the bottom shows "RS: TactLECPFDS AEA8014 TDC103", "05:08:53", "Flt 46/4049 (20)", "039:39:55N", and "004:04:58W".

RAMS Plus L:\Proyectos\DesarrolloSW\Norvase\MFF\ESCENARIOS_RAM\pruebasMFF\pruebasMFF.rams

File Edit View Tools OCI Simulate Graphics Help

VIEWPOINT
RAMS Plus Users

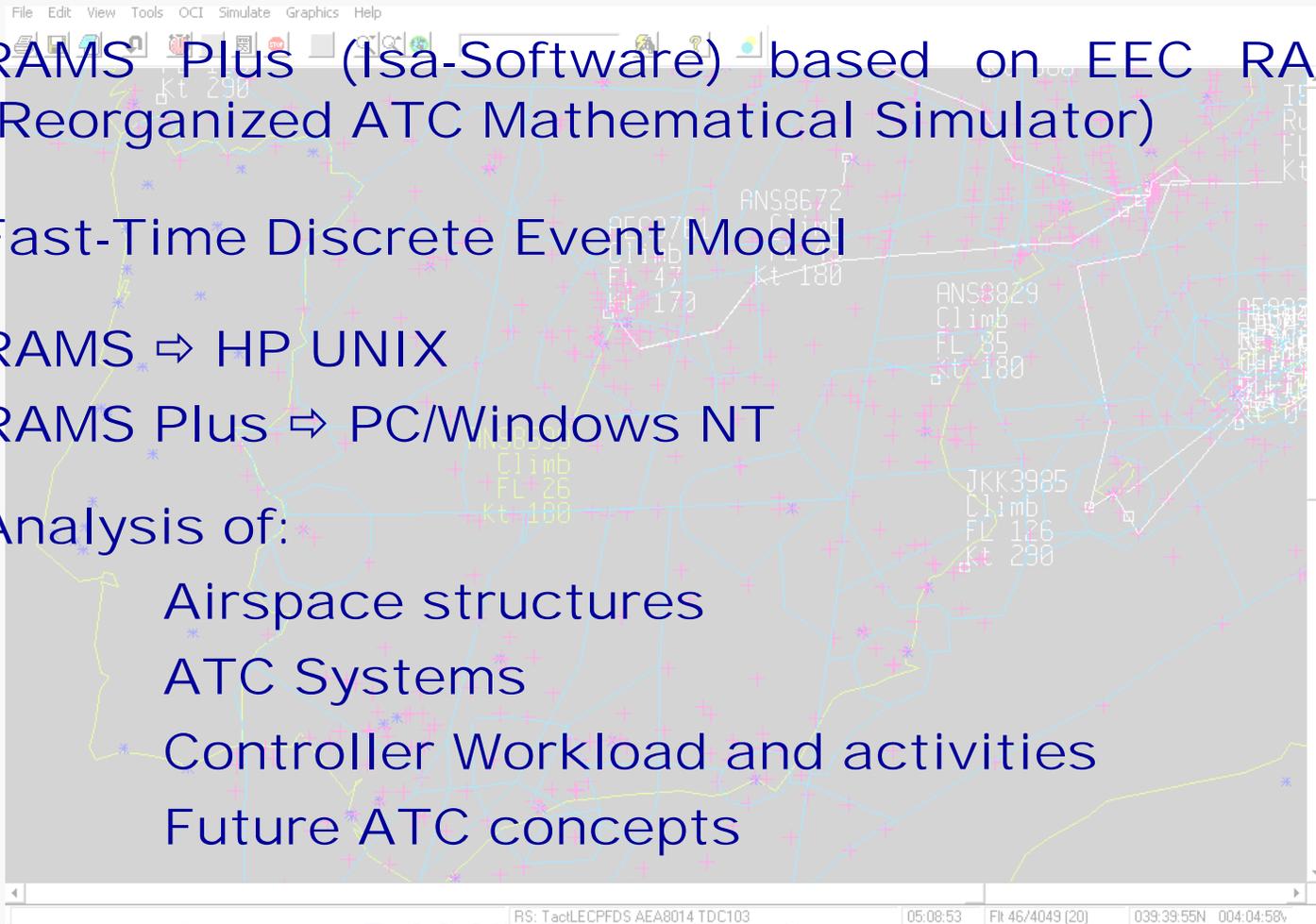
Sara Mesón Mancha INECO
RAMS Plus User Group Meeting

RS: TactLECPFDS AEA8014 TDC103 05:08:53 Flt 46/4049 (20) 039:39:55N 004:04:58W



RAMS Plus OVERVIEW

- RAMS Plus (Isa-Software) based on EEC RAMS (Reorganized ATC Mathematical Simulator)
- Fast-Time Discrete Event Model
- RAMS \Rightarrow HP UNIX
RAMS Plus \Rightarrow PC/Windows NT
- Analysis of:
 - Airspace structures
 - ATC Systems
 - Controller Workload and activities
 - Future ATC concepts
- Next release: RAMS Plus 5.0 Gate to Gate





RAMS Plus USER GROUP

- Annual Meeting

May 2002- Madrid (INECO)

April 2003- Budapest (CRDS)

- Users:

AENA, Spain

ATSA, Bulgaria

ENAV, Italy

Eurocontrol EEC, France

Eurocontrol CRDS, Hungary

Imperial College, UK

INECO, Spain

MITRE (CAASD), USA

NATS, UK

NAV Portugal

SICTA, Italy

Swedish CAA, Sweden

Telespazio, Italy

University of Belgrade, Serbia





RAMS Plus PROJECTS

- RAMS-MIDAS High Level Airspace Analysis
- 4-D Trajectory Based Contracts to manage the future NAS
- RAMS Plus - Augmented Flight Deck Model Experiments
- Design of Madrid and Barcelona Terminal Areas
- GENES: New Sectors Configuration Manager
- ONESKY: One Non National European Sky
- CUNE: Spanish One Single Sky
- AENA Contingency Plans
- NORVASE: Sectors Analysis and Validation
- MFF: Mediterranean Free Flight
- Airspace Capacity: Cross-sectional time-series analysis using simulated WL
- Lisbon FIR/UIR airspace re-organisation
- RAMS / SIMMOD Simulators Comparison, Case study: Yugoslav Airspace
- Capua Airport Operational Use
- GATE-TO-GATE (G2G) Programme
- Skaane Project: sectorization for the approach area and below FL285
- NUAC: Nordic Upper Area Control





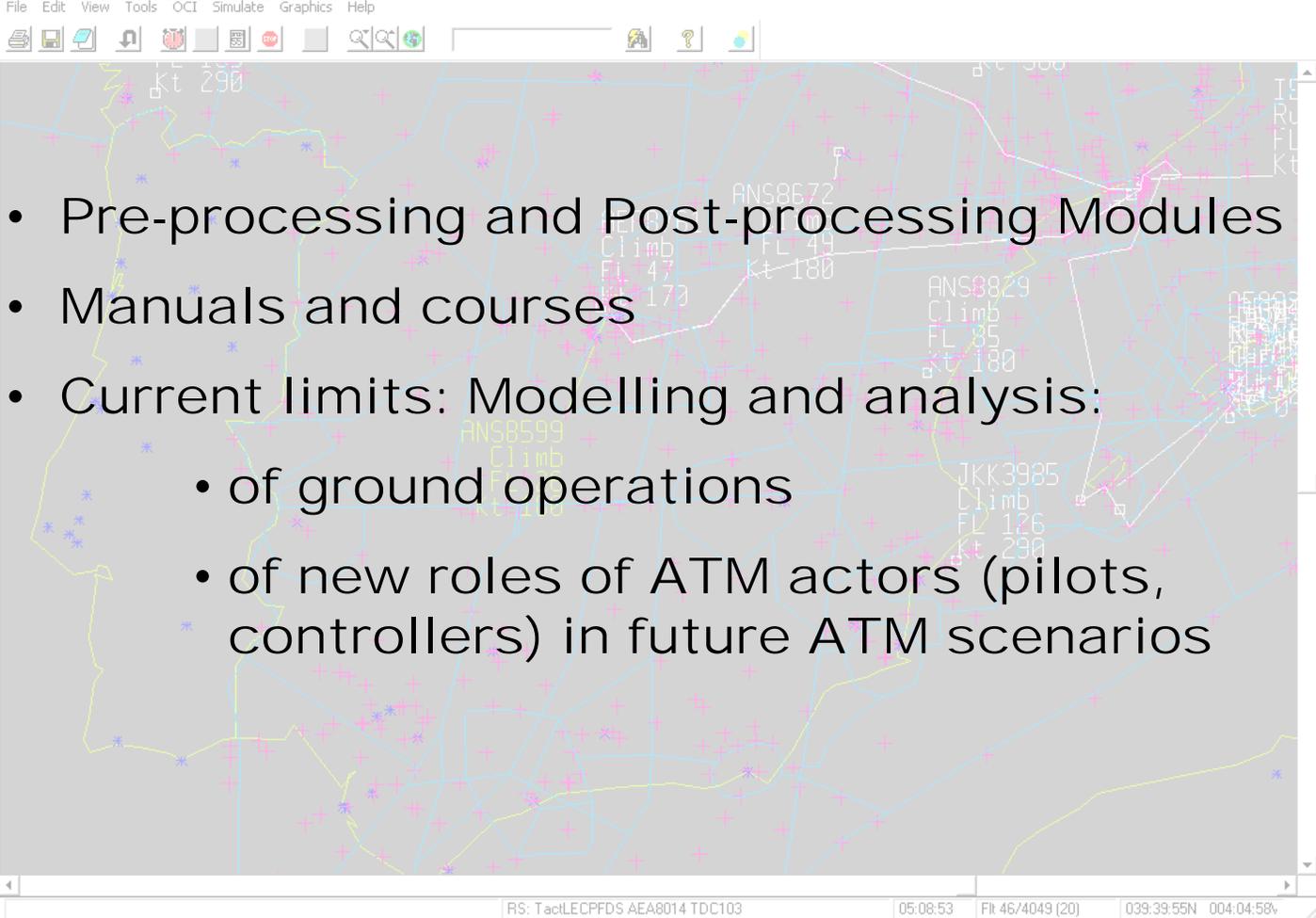
WORKING WITH RAMS Plus

The screenshot displays the RAMS Plus software interface. At the top, there is a menu bar with options: File, Edit, View, Tools, OCI, Simulate, Graphics, and Help. Below the menu bar is a toolbar with various icons for file operations, simulation, and graphics. The main workspace shows a complex flight path simulation with multiple colored lines (yellow, blue, pink) and numerous data points. Labels for flight paths include "kt 290", "ANS8599", "JJK3985", "Climb", "FL 126", "kt 290", "FL 85", "kt 180", "FL 49", "kt 180", "FL 147", "kt 180", "FL 126", "kt 290", "FL 126", "kt 290", "FL 126", "kt 290". The bottom status bar shows: "RS: TactLECPFDS AEA8014 TDC103", "05:08:53", "Flt 46/4049 (20)", "039:39:55N 004:04:58W".

- Inputs and Outputs in text format
- Easy preparation and data treatment
- Quick management of basic concepts
- Easy to build and run scenarios
- Fast output generation
- User-friendly in Windows environment



WORKING WITH RAMS Plus

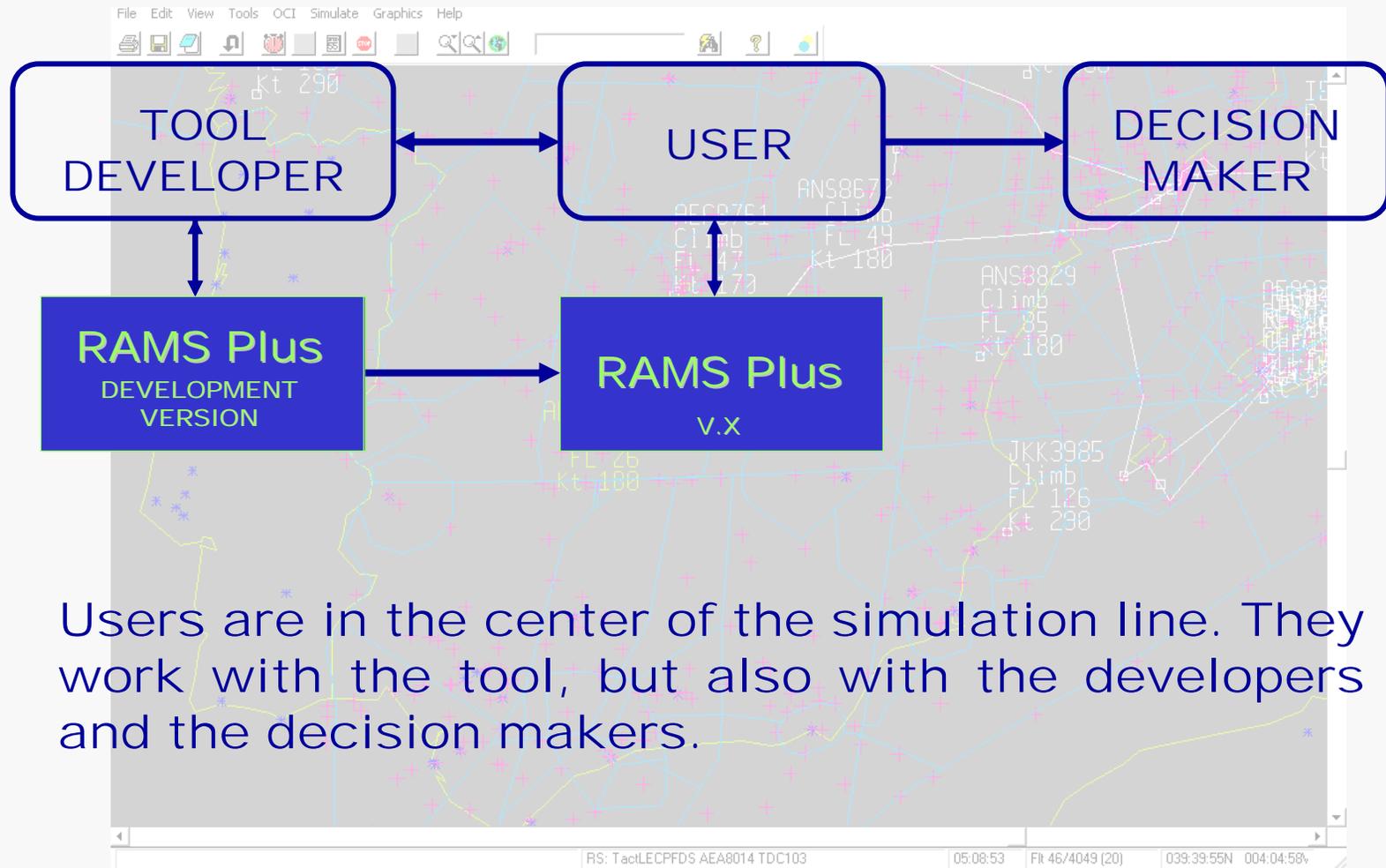


The screenshot shows the RAMS Plus software interface. At the top, there is a menu bar with options: File, Edit, View, Tools, OCI, Simulate, Graphics, Help. Below the menu bar is a toolbar with various icons for file operations, simulation control, and navigation. The main display area is a flight simulation map with a grey background and a network of blue and yellow lines representing flight paths or boundaries. Several aircraft are visible, each with a label indicating its call sign, climb rate, flight level, and speed. For example, one aircraft is labeled "ANS8672" with "Climb FL 47 Kt 170". Another is "ANS8829" with "Climb FL 85 Kt 180". A third is "JJK3985" with "Climb FL 126 Kt 290". The bottom status bar displays the following information: "RS: TactLECPFDS AEA8014 TDC103", "05:08:53", "Flt 46/4049 (20)", "039:39:55N 004:04:58W".

- Pre-processing and Post-processing Modules
- Manuals and courses
- Current limits: Modelling and analysis:
 - of ground operations
 - of new roles of ATM actors (pilots, controllers) in future ATM scenarios



USERS ROLE IN THE SIMULATION COMMUNITY





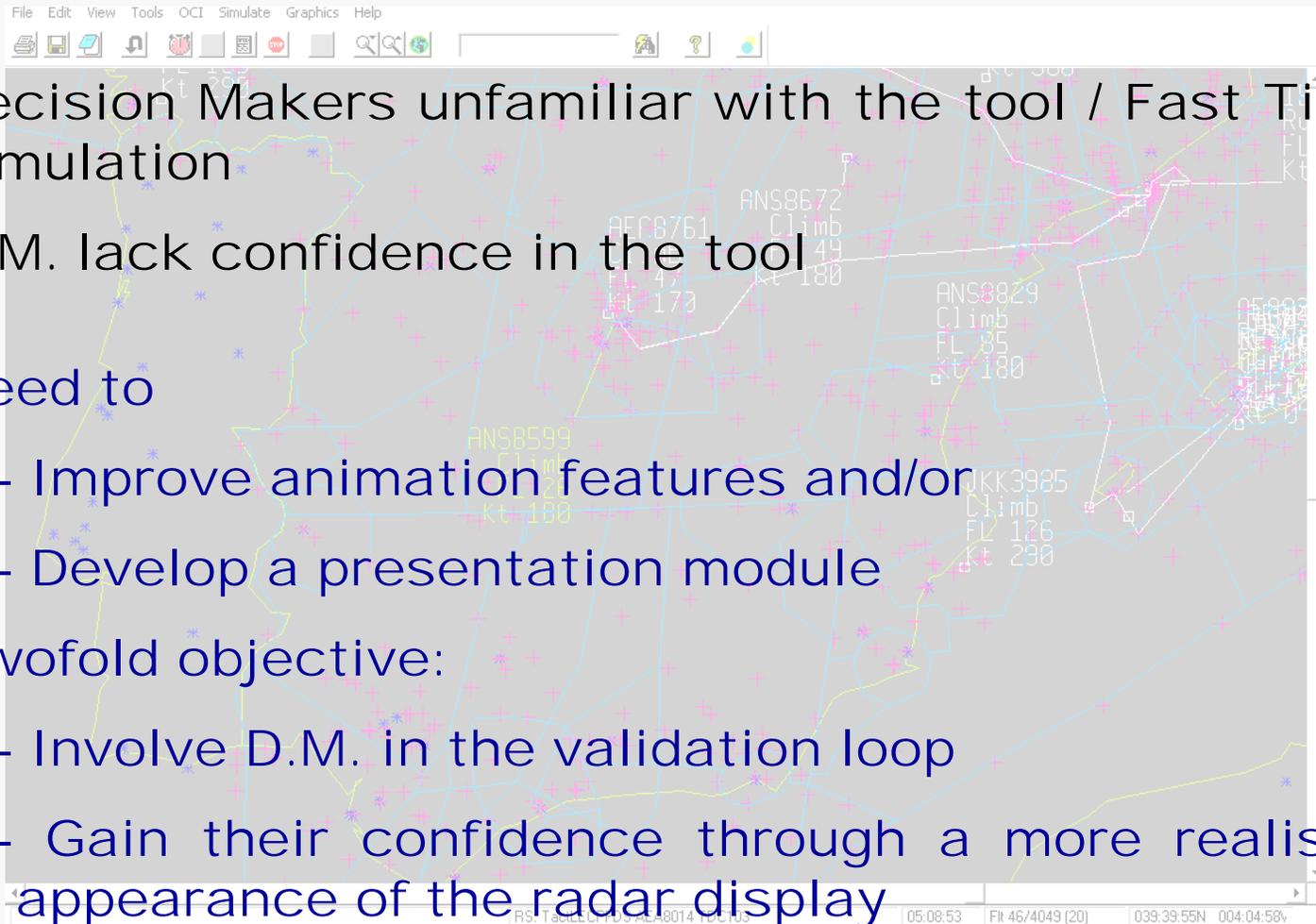
RELATIONSHIP BETWEEN USER AND DEVELOPER

A screenshot of the RAMS Plus software interface. The window title is "RS: TactLECPFDS AEA8014 TDC103". The menu bar includes "File", "Edit", "View", "Tools", "OCI", "Simulate", "Graphics", and "Help". The toolbar contains various icons for file operations, simulation, and graphics. The main display area shows a complex network of flight paths and waypoints, with labels such as "ANS8672", "ANS8829", "ANS8599", "TWR0905", and "058902". Each label includes flight parameters like "Climb", "FL" (Flight Level), and "Kt" (Knots). The status bar at the bottom shows "05:08:53", "Flt 46/4049 (20)", "039:39:55N", and "004:04:58W".

- E-mail: ramssupport@isa-software.com
- Web site: www.ramsplus.com
- User Group Meetings
- Availability and professional support service:
 - Quick reply to problems and questions
 - Quick delivery of patches to solve bugs or to incorporate users requests.



RELATIONSHIP BETWEEN USER AND DECISION MAKER

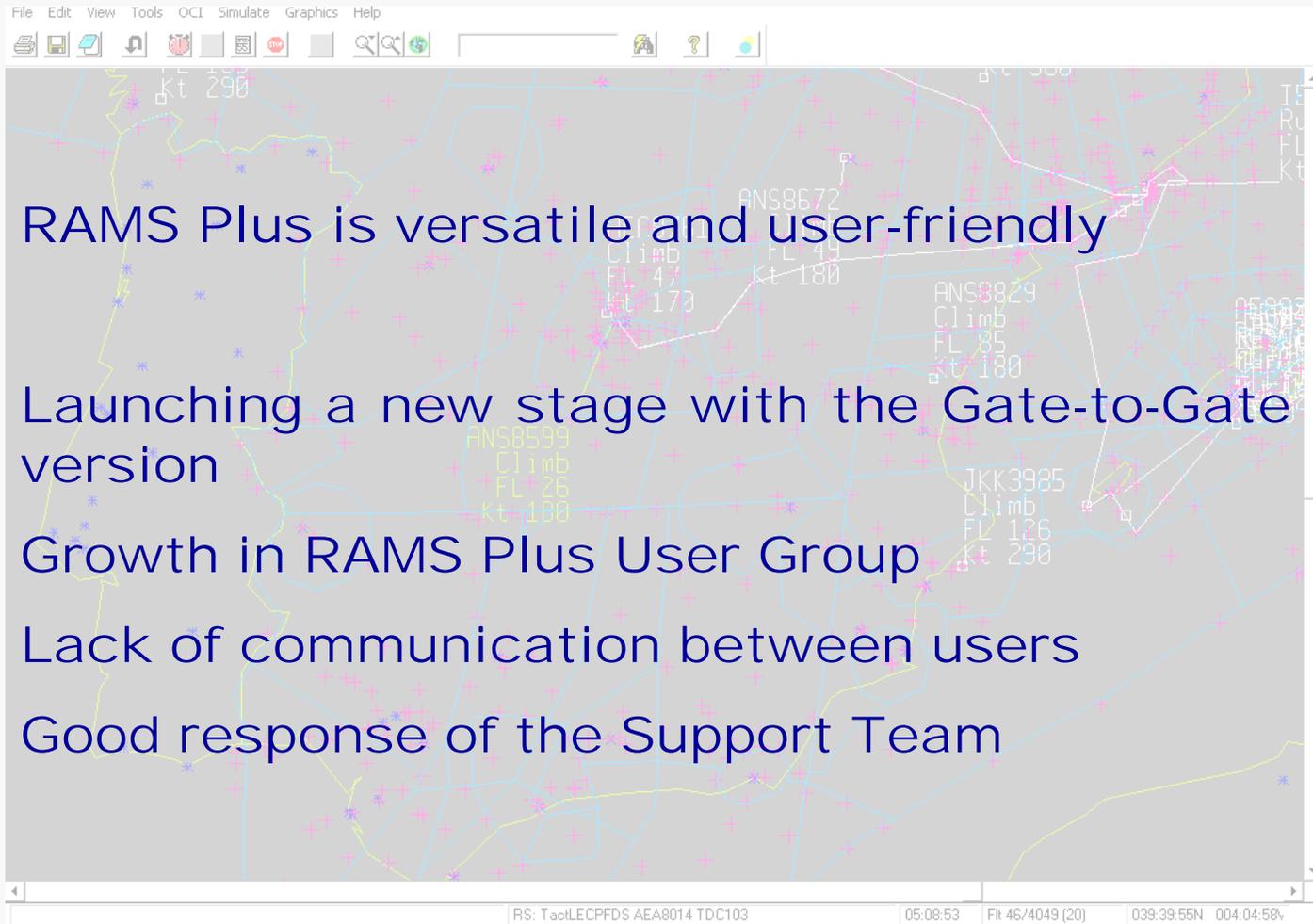


- Decision Makers unfamiliar with the tool / Fast Time Simulation
- D.M. lack confidence in the tool
- Need to
 - Improve animation features and/or
 - Develop a presentation module
- Twofold objective:
 - Involve D.M. in the validation loop
 - Gain their confidence through a more realistic appearance of the radar display



CONCLUSIONS

- RAMS Plus is versatile and user-friendly
- Launching a new stage with the Gate-to-Gate version
- Growth in RAMS Plus User Group
- Lack of communication between users
- Good response of the Support Team





PROPOSAL

- LACK OF STANDARDS

- STANDARD PROCEDURE

With international approved standards we would get:

- Confidence from the D.M.
- Common pre and post processing modules
- Common demands for the Support Team
- Comparable results

