# IMPROVING THE SOFTWARE ERGONOMY OF TMF

#### Introduction

- . METHODOLOGY
- II. DATA GATHERING
- III. ANALYSIS
- IV. PROPOSALS
- v. CONCLUSION



# I. METHODOLOGY

#### 4 majors steps:

- Discovery of the tool
  - Goals,
  - Features,
  - Target Users.
- Collect data from the users,
- Analyse this data to identify focus points,
- ✓ Propose solutions.



How to collect data?

# Data collected in 3 different ways:

- Analysis of the software,
- ✓ User feedback,
- ✓ User observation.



#### Analysis of the software:

- Bastien & Scapin criteria, Set of 8 theme to structure the analysis
- Personnas & Cognitive walkthrough.



Simulation to anticipate user's difficulties



#### User Feedback:

Questionnaire,

https://docs.google.com/forms/d/1062AXpphKCWSQtzkgqWB65iJG5l4rzkNHuLYzzPBgpU/viewform

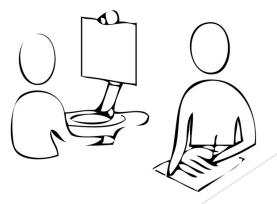
Interview.





#### Users observations:

- Students
  From a kernel tutorial class,
- Professionals
  CIENA's employees.





#### III. ANALYSIS

- Limited quantity of data.

- + Good diversity of users and/or usecases,
- + Similarities in data collected.

Similarities -> Points to focus in priority



#### III. ANALYSIS

- First use is difficult and with not enough guidance,
- Difficulties in manipulation
  - Mistakes,
  - Needlessly long manipulations.
- Lack of visual feedback.

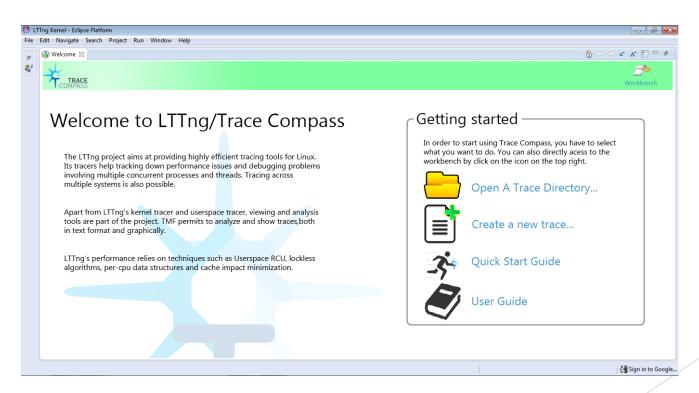


#### The Welcome tab:

- What the software can do and how to do it,
  - Majors features,
- Guide new users during their first uses,
  - Create a new trace &/or analysis,
  - Open an existing trace.

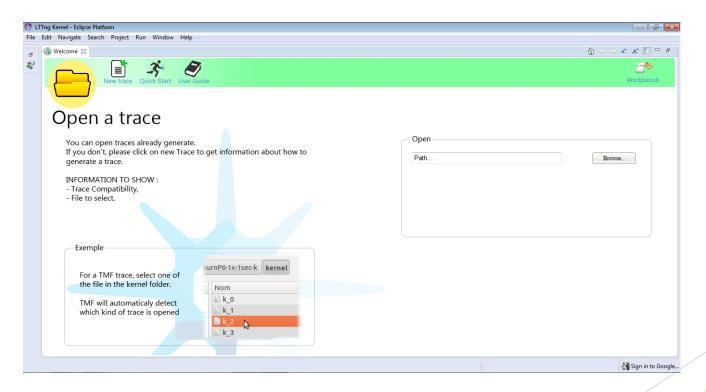


#### The Welcome tab mock-up (not completed)



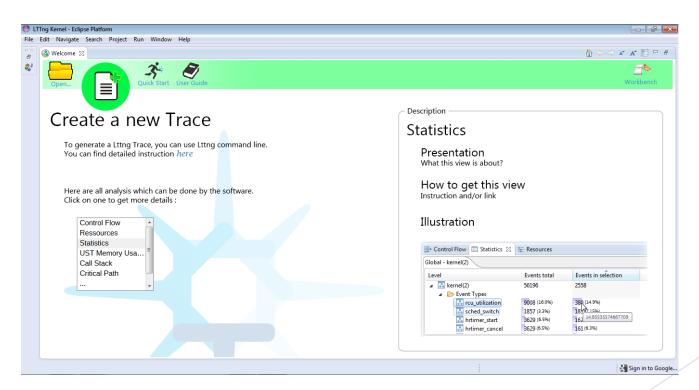


The Welcome tab mock-up (not completed)



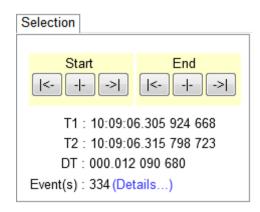


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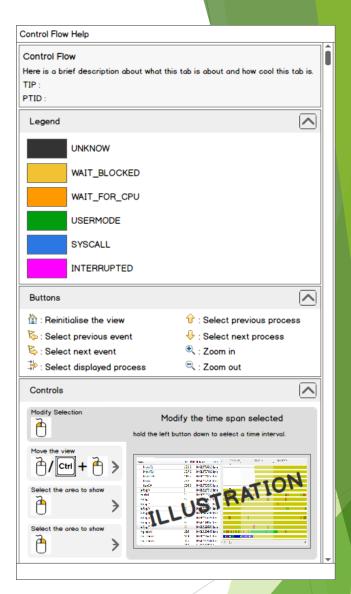


- Modification in the controls
  - For the selection,
  - For the navigation.





- Bring information to the user
  - Tab specific controls,
  - Tab specific functionalities,



#### Add Feedback:

- When a view is updated,
- Which analysis is available and why,
- Why the view cannot be generated,
- If there are lost events...



# III. CONCLUSION

TMF is a powerful tool

#### Need modifications:

- To improve the experience,
- To improve the users' efficiency,
- To attract more user.



Thank you for your attention.

QUESTION?

