

Laurea in Ingegneria Informatica  
SAPIENZA Università di Roma

# Progettazione del Software

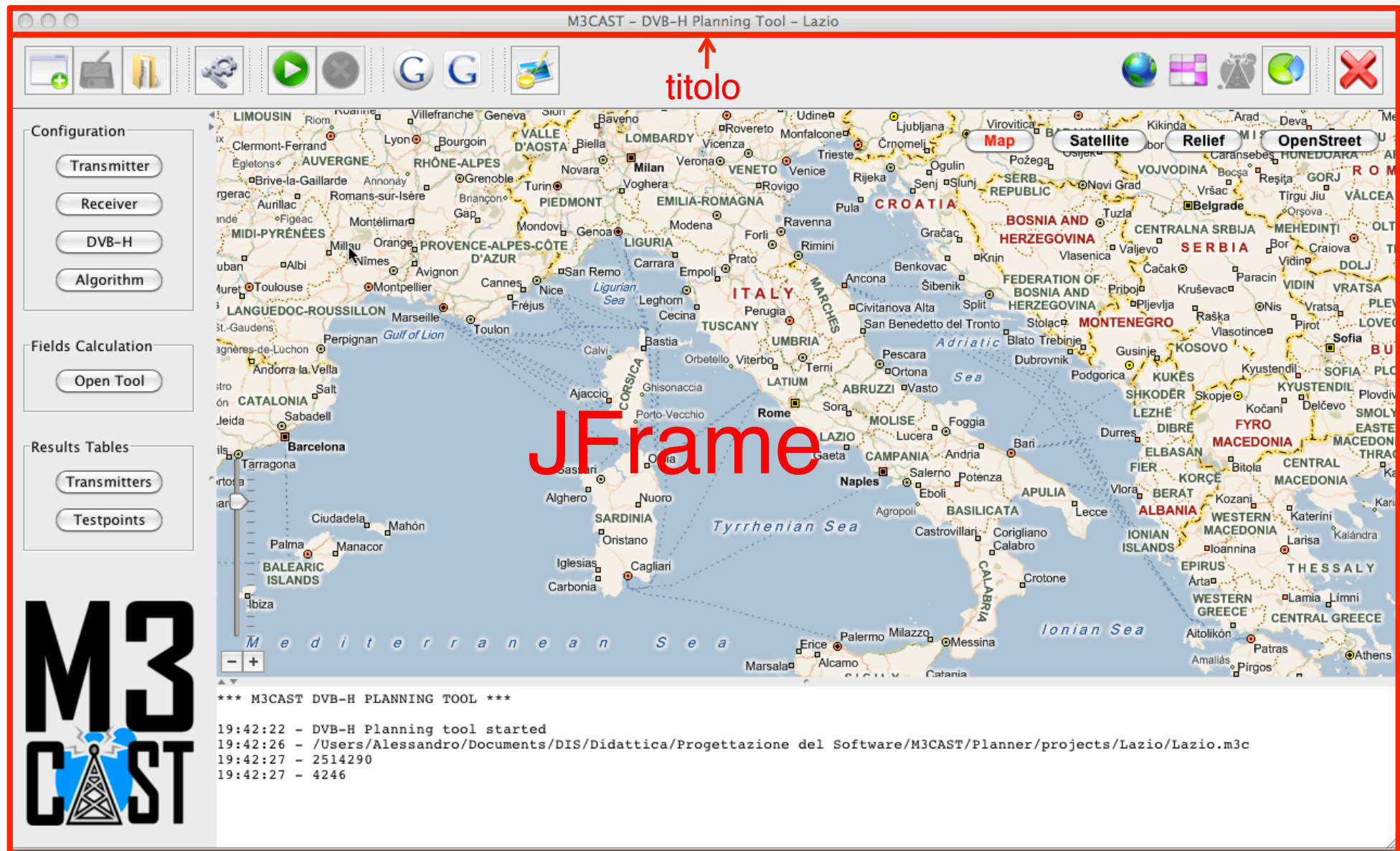
## A.A. 2010/11

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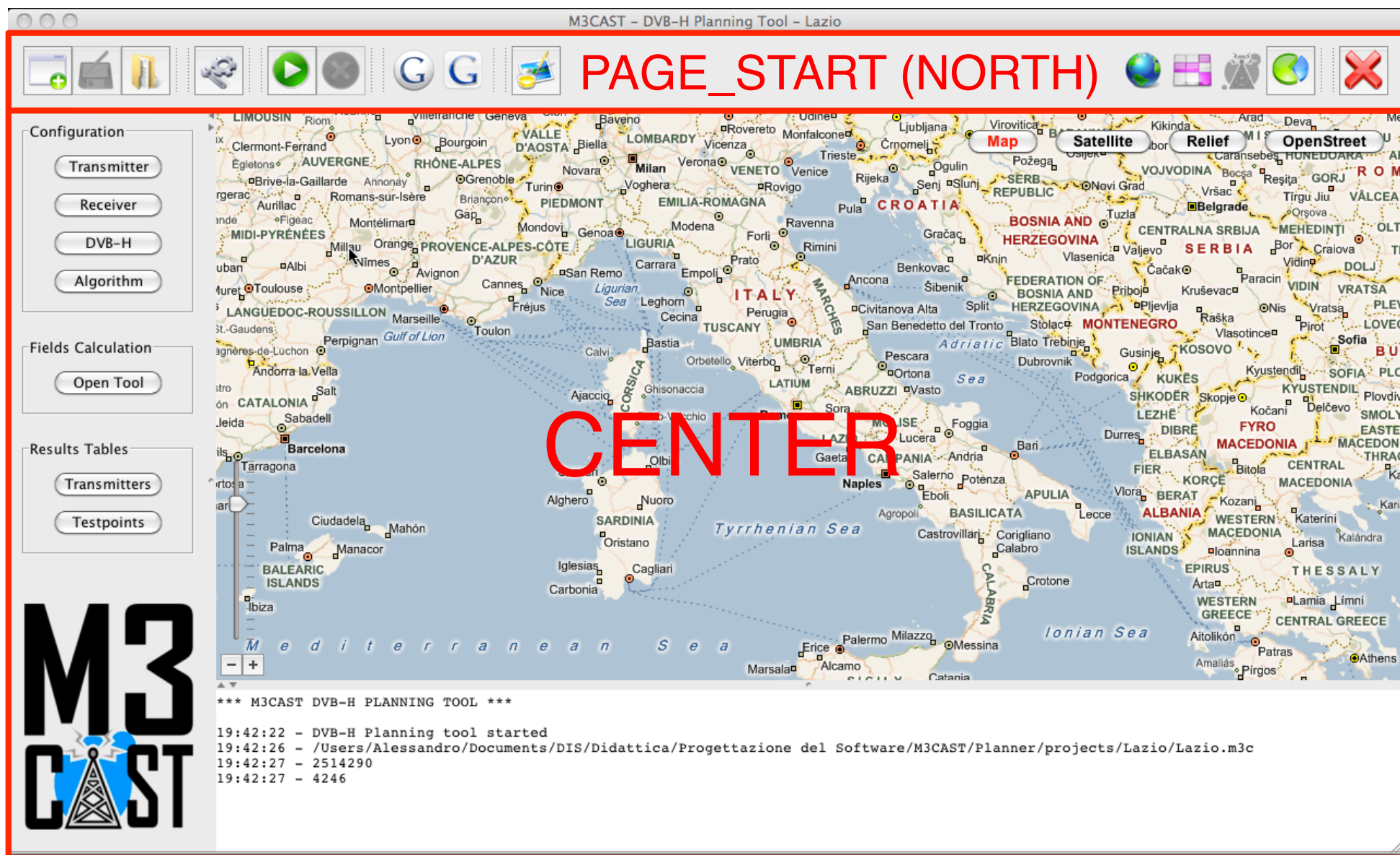
## *Interfacce Grafiche Avanzate con Java Swing*

*Il materiale e gli screenshot qui utilizzati sono tratti da un'applicazione realizzata presso ElsagDatamat S.p.A nel contesto del progetto di ricerca M3CAST finanziato dal Ministero dell'Istruzione, dell'Università e della Ricerca (<http://www.elsagdatamat.com/PDF/EDLink32.pdf> - pagg. 26-29)*

# JFrame e titolo

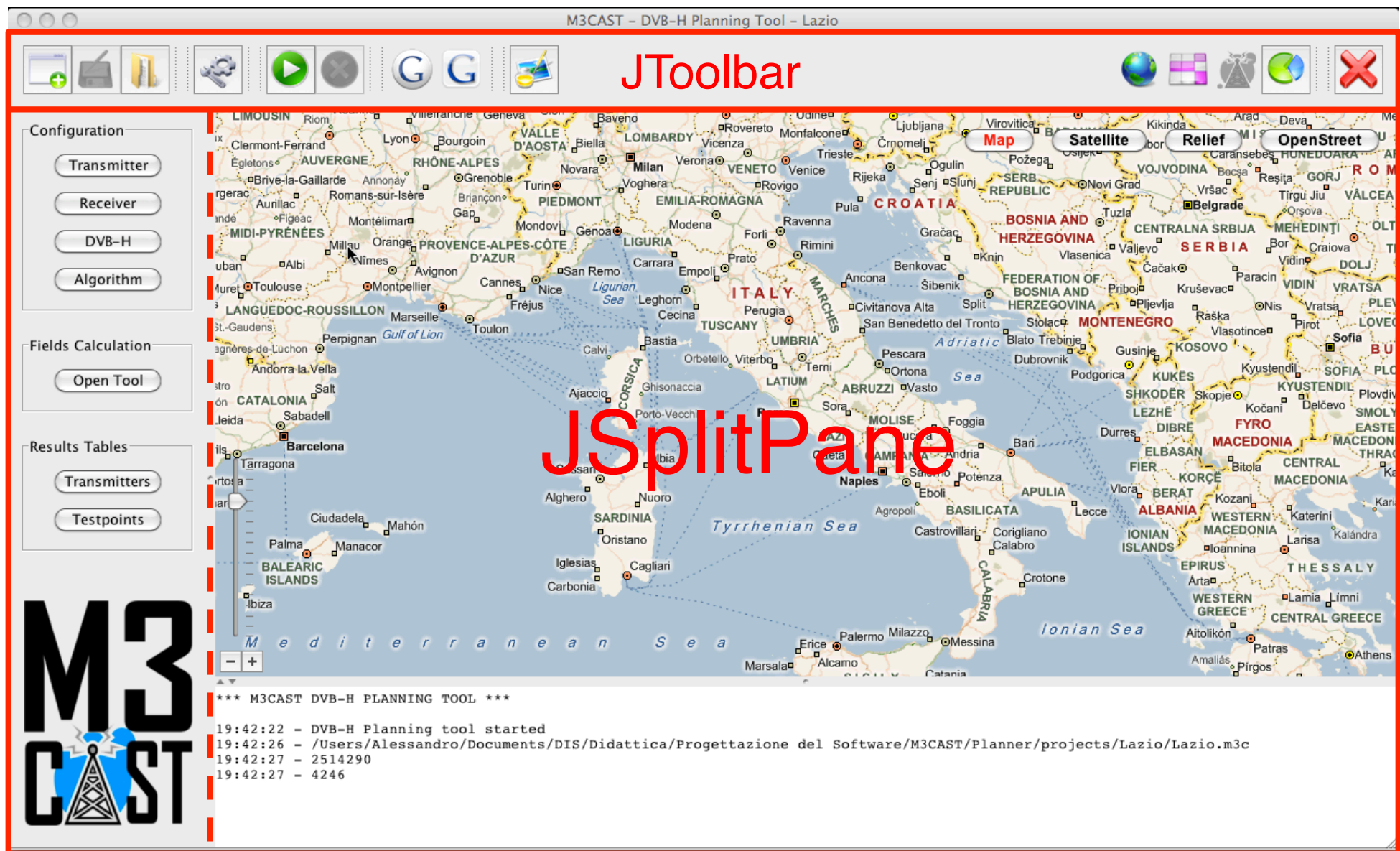


# Layout principale: BorderLayout (1/2)

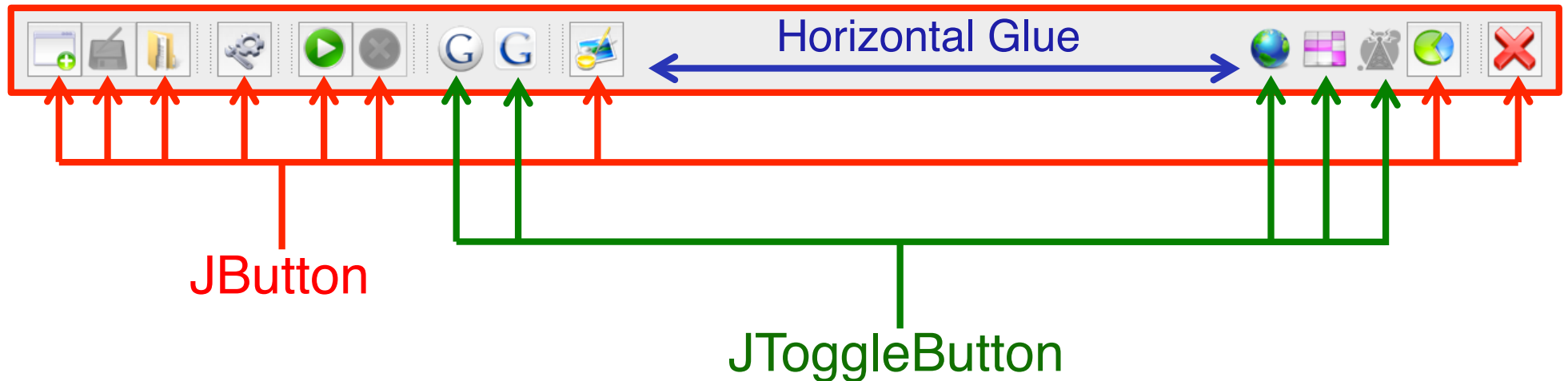




# Layout principale: BorderLayout (2/2)



# JToolBar



```
JToolBar toolbar = new JToolBar();
JButton settingsButton = new JButton();
settingsButton.setIcon(new ImageIcon("images/settings.png"));
settingsButton.setToolTipText("Settings");
settingsButton.addActionListener(toolbarListener);
toolbar.add(settingsButton);
```

```
saveButton.setEnabled(false);
```

# JSplitPane

## JSplitPane

**JXMapKit (SwingX)**

```
JSplitPane splitPane = new JSplitPane(JSplitPane.VERTICAL_SPLIT,  
                                       map, textArea);  
splitPane.setOneTouchExpandable(true);  
splitPane.setResizeWeight(0.75);
```

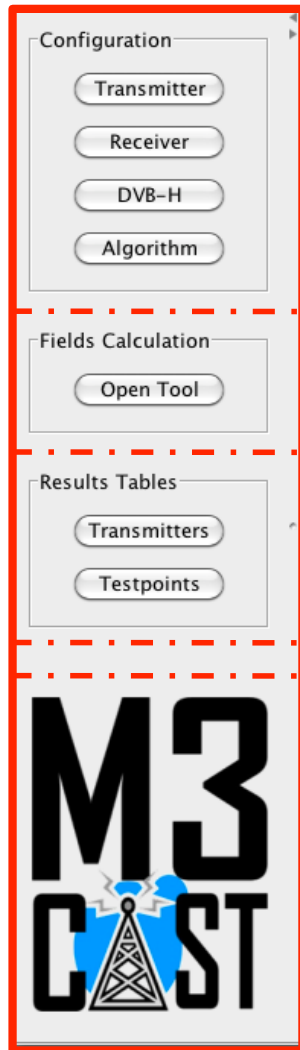
**JScrollPane + JTextArea**

\*\* M3CAST DVB-H PLANNING TOOL \*\*\*

9:42:22 - DVB-H Planning tool started  
9:42:26 - /Users/Alessandro/Documents/DIS/Didattica/Progettazione del Software/M3CAST/Planner/projects/Lazio/Lazio.m3c  
9:42:27 - 2514290  
9:42:27 - 4246

# BoxLayout

## JPanel



JPanel

JPanel

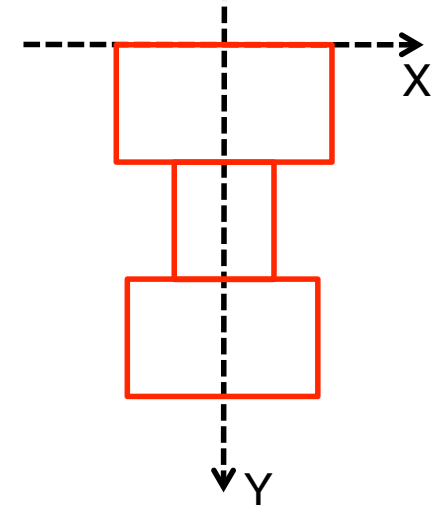
JPanel

Vertical Glue

JLabel +  
ImageIcon

- TitledBorder  
- JButtons

BoxLayout

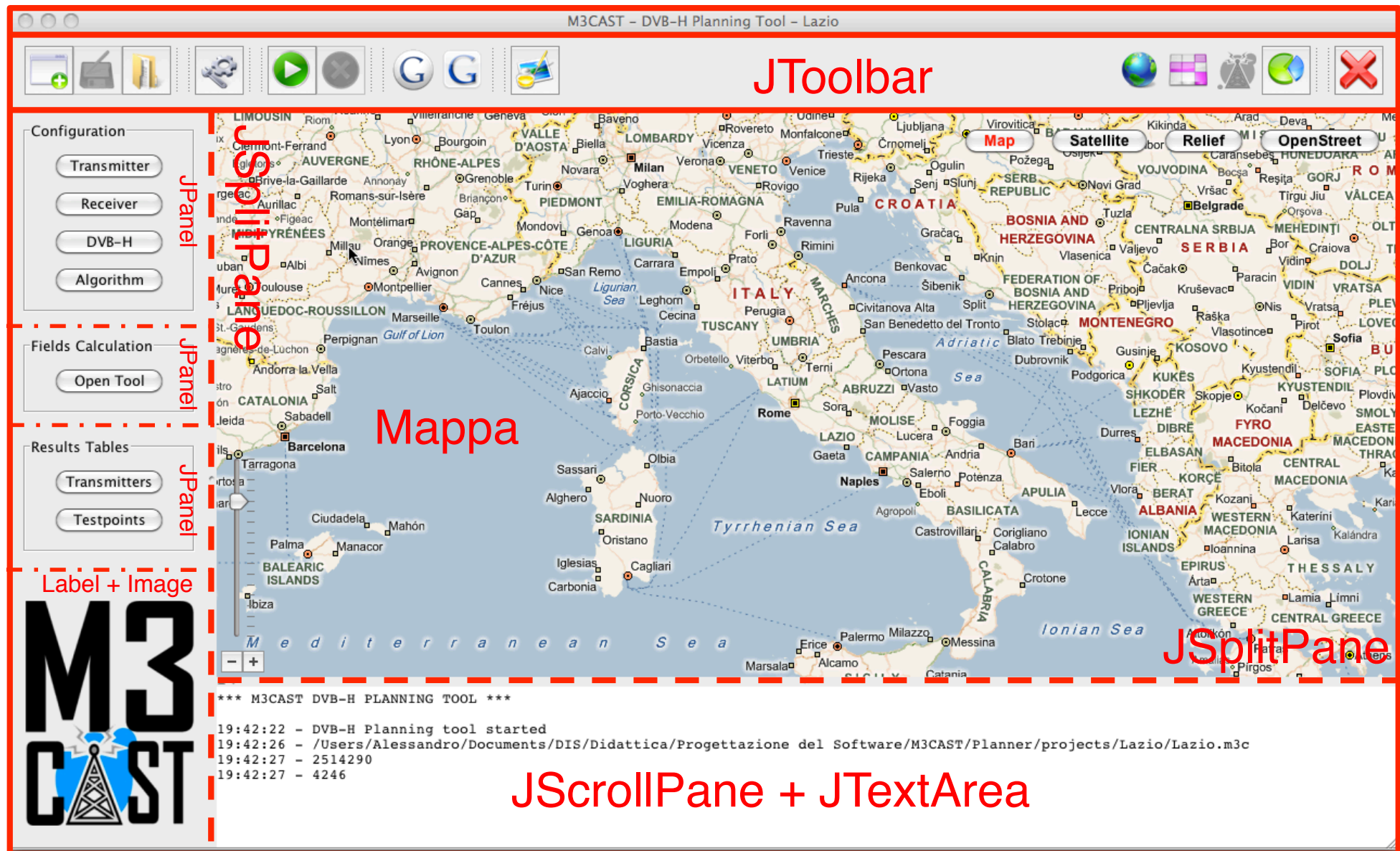


```
JPanel configPanel = new JPanel();
TitledBorder configBorder = BorderFactory.createTitledBorder
    ("Configuration");
configBorder.setTitleJustification(TitledBorder.LEFT);
configPanel.setBorder(new CompoundBorder(configBorder, new
    EmptyBorder(5,20,10,20)));
configPanel.setLayout(new BoxLayout(configPanel,
    BoxLayout.Y_AXIS));
//.....
transmitterButton.setAlignmentX(CENTER_ALIGNMENT);
```



# Struttura complessiva

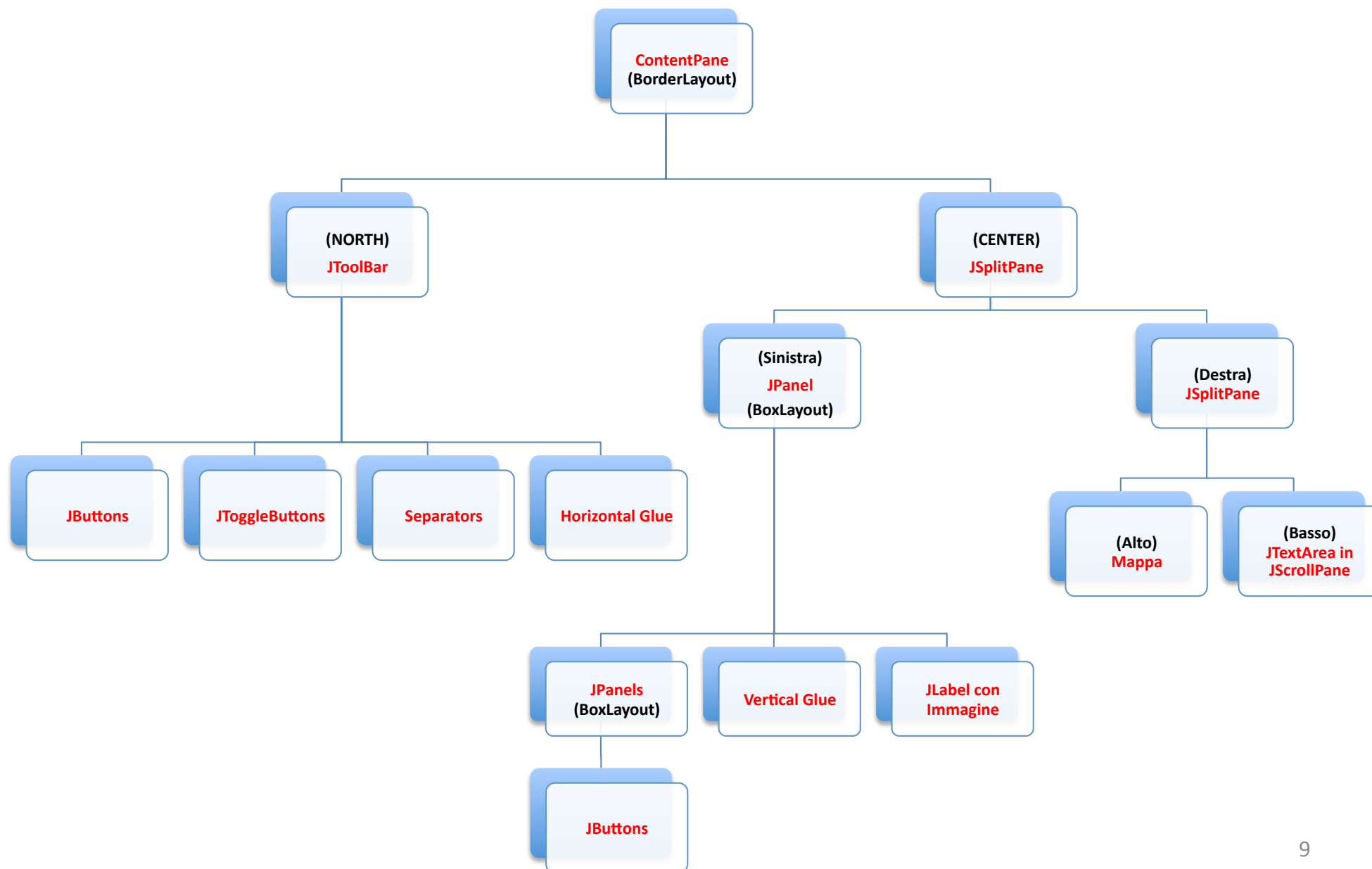
JFrame



JScrollPane + JTextArea



# Struttura ad Albero dei Componenti Principali



# Java Swing: Riferimenti

- Interfacce grafiche in Java

<http://download.oracle.com/javase/tutorial/ui/index.html>

- Tutorial on-line su Java Swing

<http://download.oracle.com/javase/tutorial/uiswing/index.html>

- Guida grafica ai componenti Swing

<http://download.oracle.com/javase/tutorial/ui/features/compWin.htm>