#### The Opus Research Group

# Identifying Design Problems with Code Smell Agglomerations VISADEP

Benedicte Agbachi, Eduardo Fernandes, and Alessandro Garcia



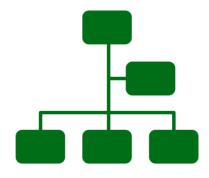


## About VISADEP



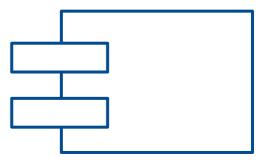
Jan - 2018

#### The VISADEP tool



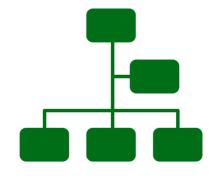
# Visualizing code smell agglomerations in Java systems

Available as an Eclipse IDE plug-in



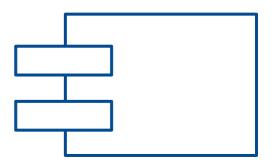


#### Features of VISADEP



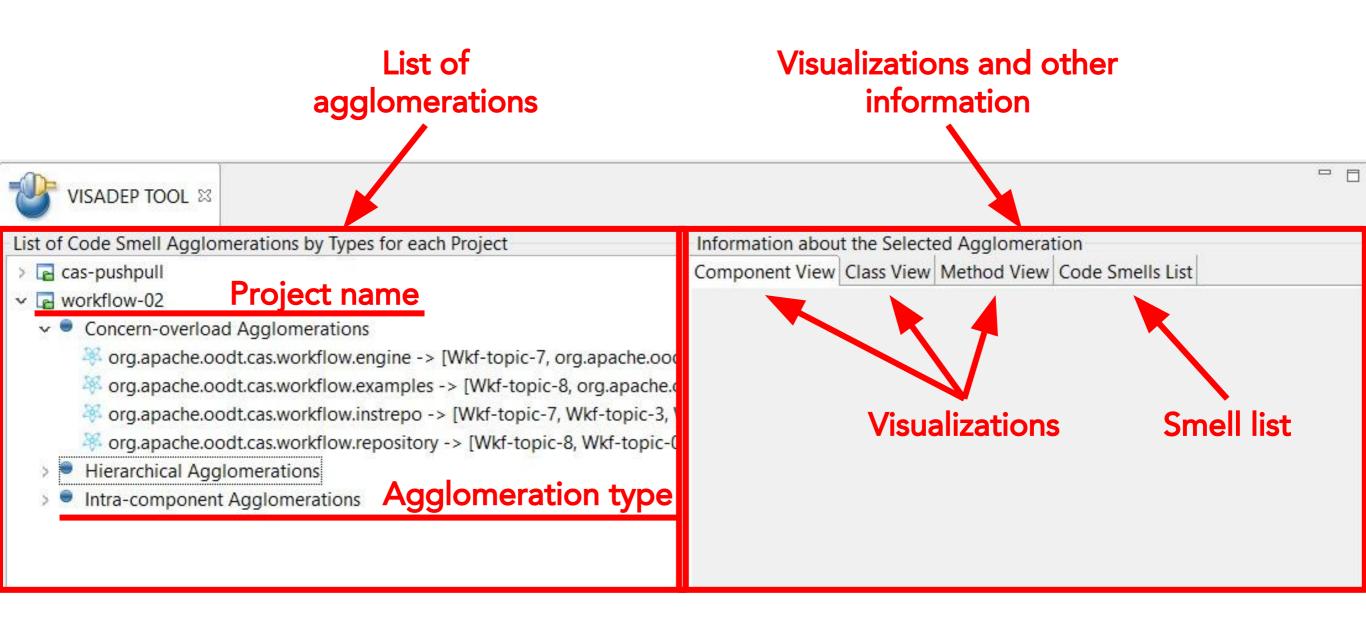
**Three** abstraction levels: component, class, and method

+ the list of agglomerated code smells



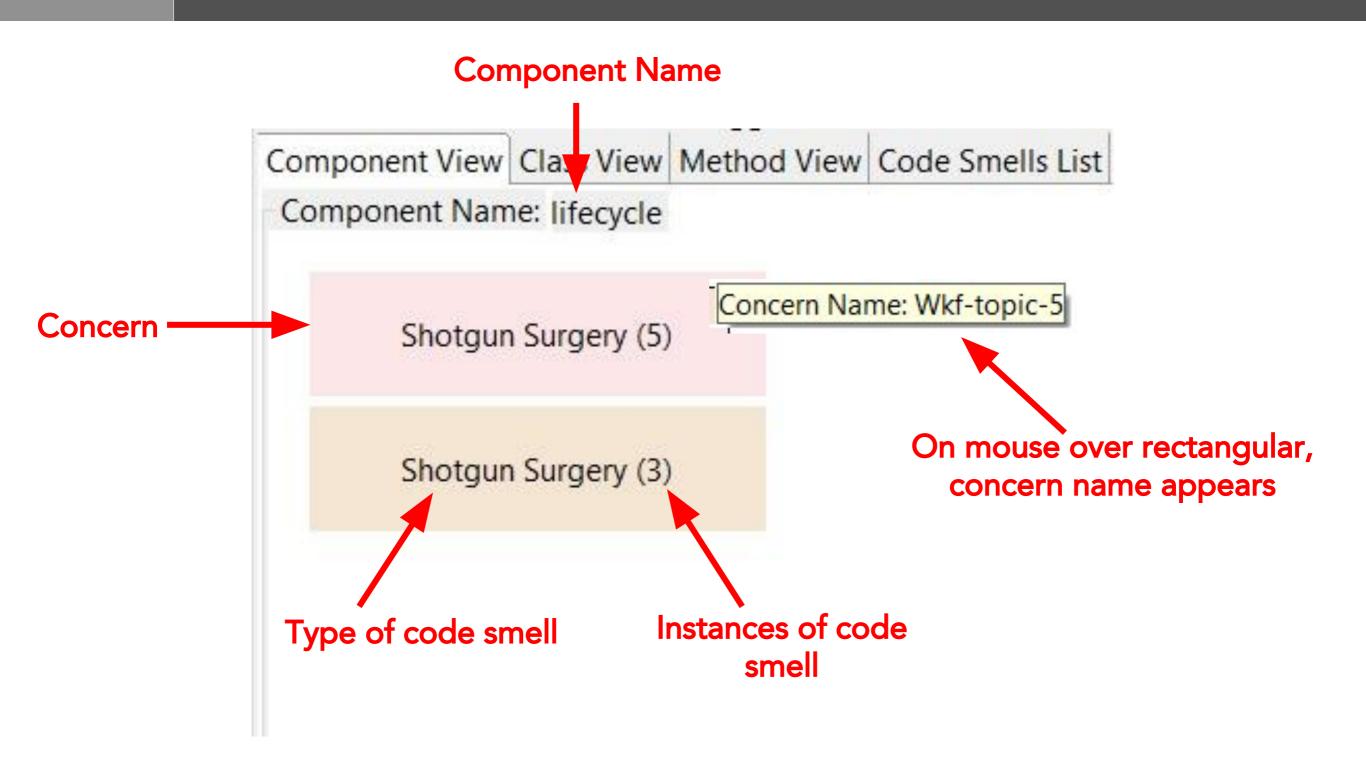


#### VISADEP main screen



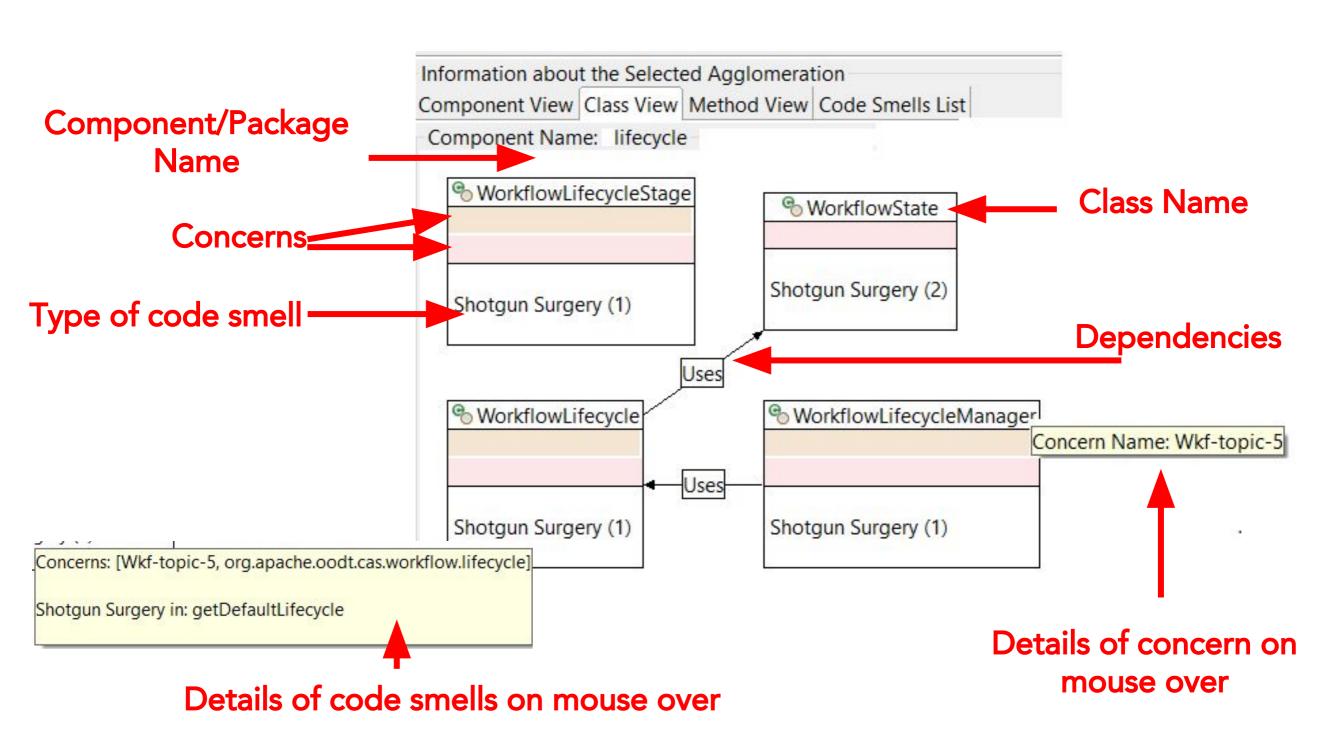


### Component view



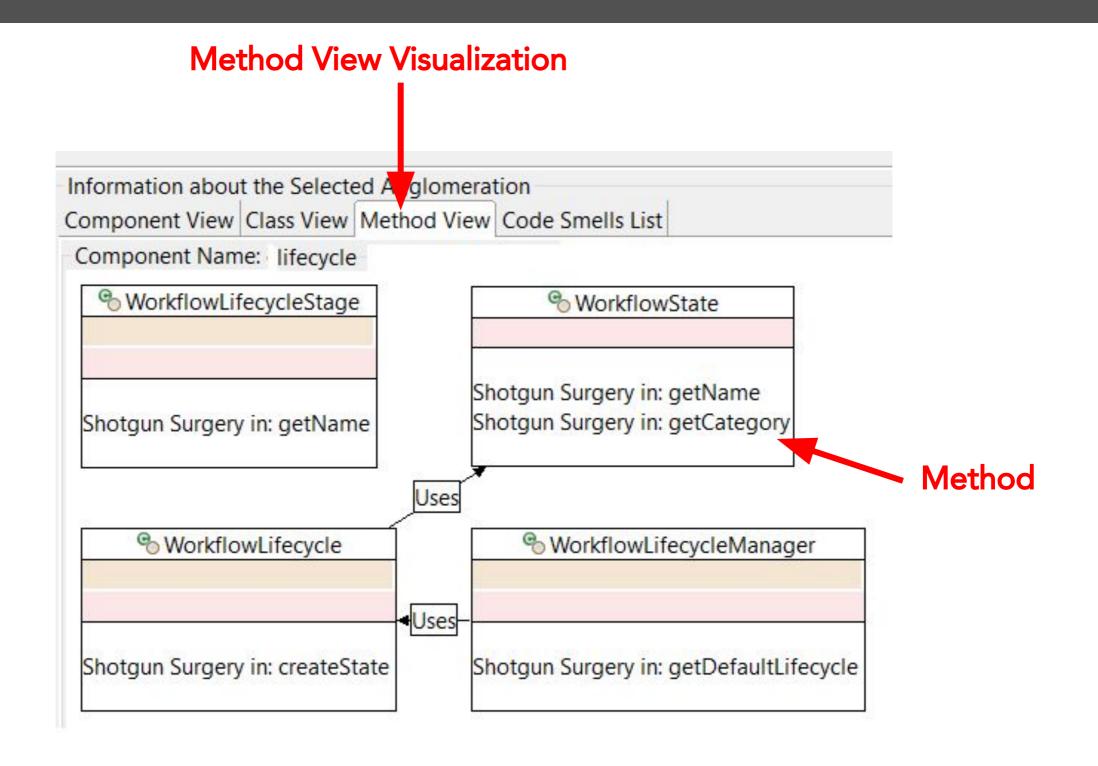


#### Class view



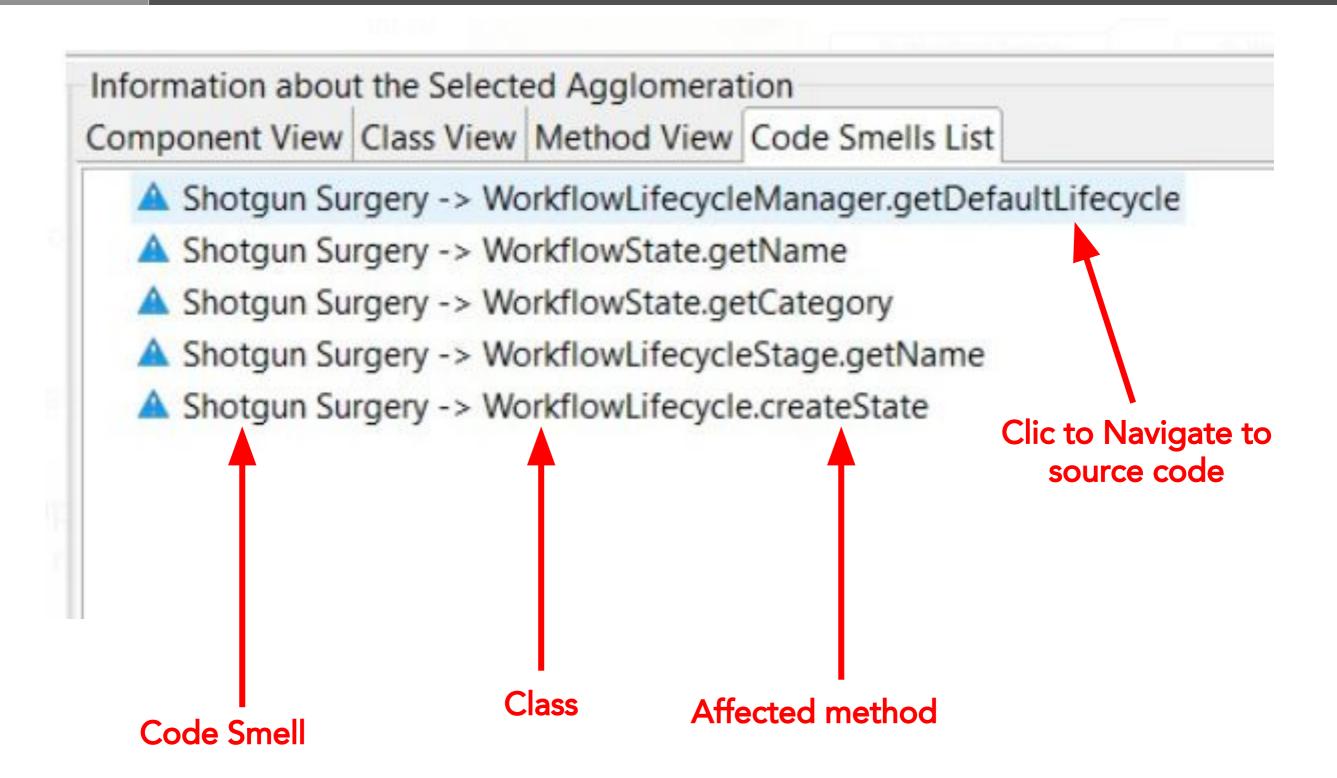


#### Method view





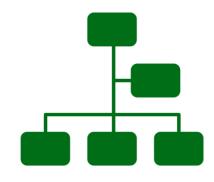
#### Code smell list



## About the Experiment with VISADEP

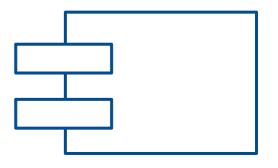


#### Main objective



# Reason about pre-selected code smell agglomerations

Identify (or not) design problems with the agglomerations





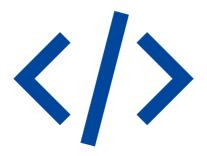
### In case you identify a design problem...



### Briefly describe it



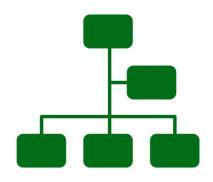
List the visualization elements that helped identifying it



List the **code elements** involved in the design problem

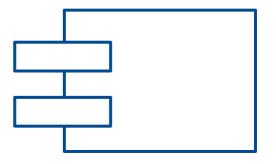


#### Final considerations



You will have **90 minutes** to finish the experiment

Questions? Please ask the experiment instructor



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