

Polytechnic University of Tirana Department of Computer Engineering

# SE Trends & Challenges in Albanian Companies Employed students point of view

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## Introduction

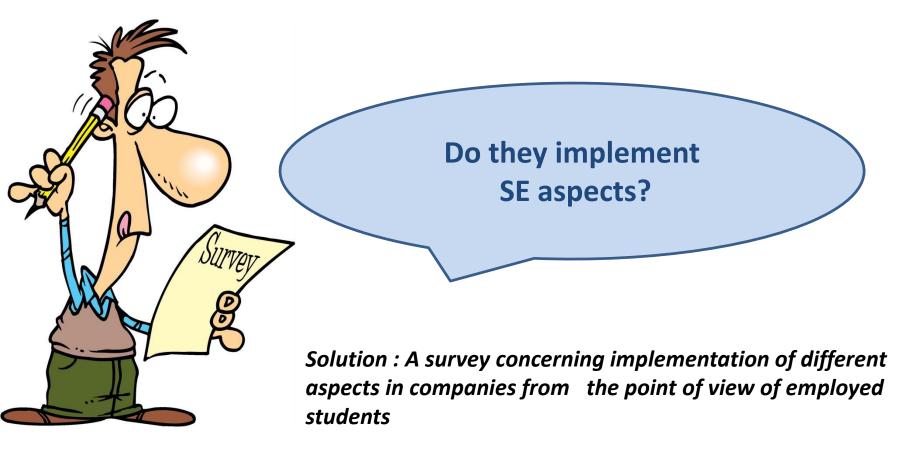
Survey results

Conclusions

Proposed ideas

## Introduction

#### **Dozens of companies that develop software in Albania**



### **Survey focus**



### BUT

How students implement their SE knowledge in their work environment ?

#### Survey

#### 20 questions

Related to : Model to develop the software Size of the software developed The way they work (individually or in team) Characteristics of different development phases

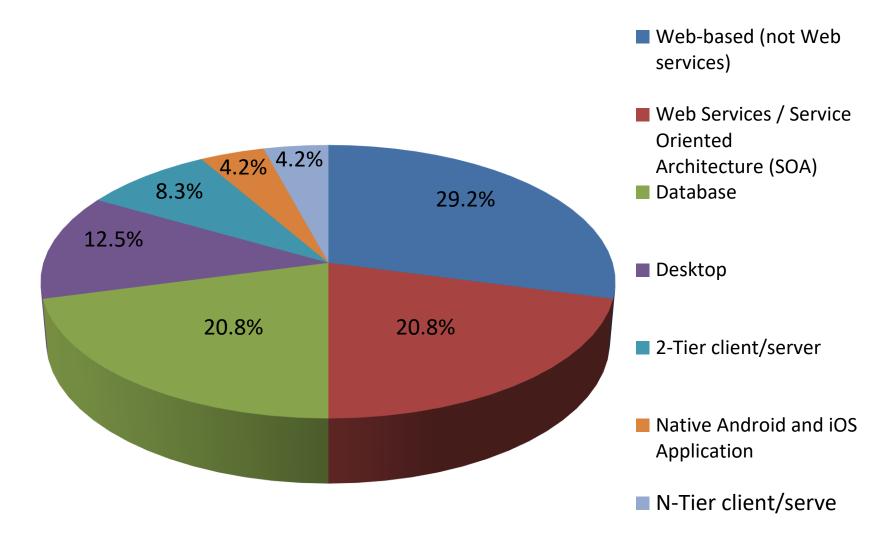
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## 23 different companies From 4 to 1500 employers





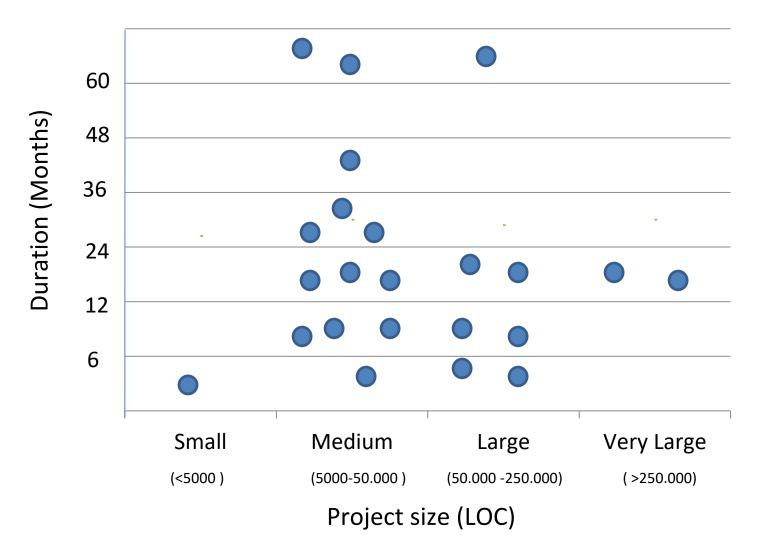
#### Type of software developed



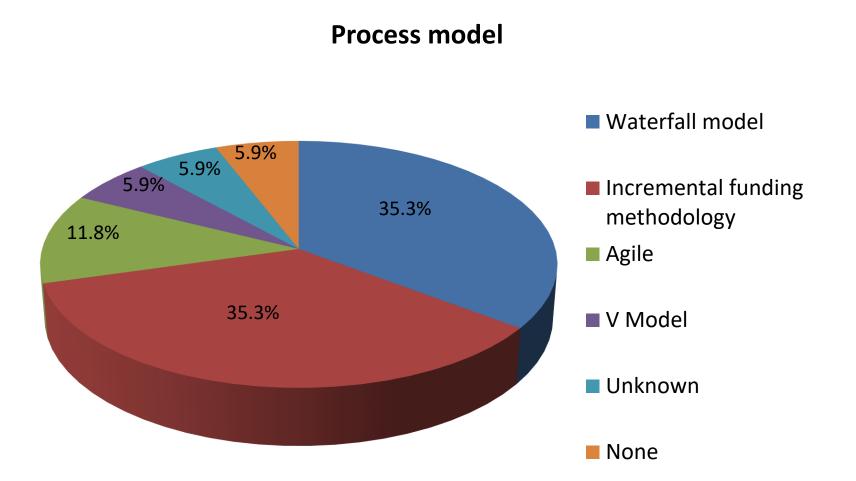
#### Working in a team?



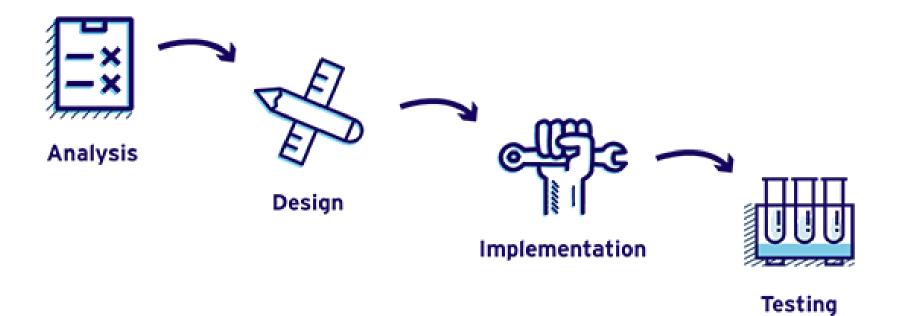
#### **Project specifications**



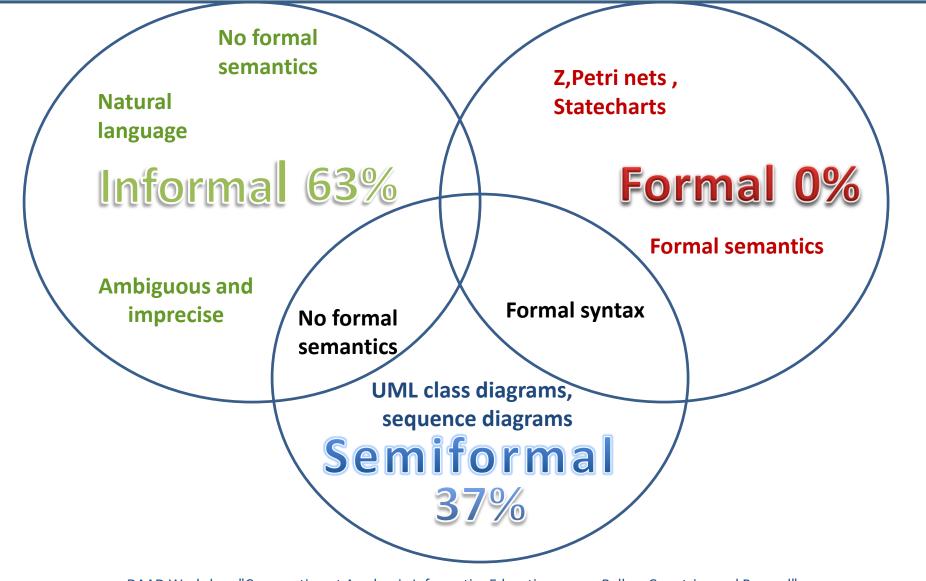
#### Software process models used



#### **Basic phases in software developing**



#### **Requirements Specification Approach**



#### **Methods for SW development**







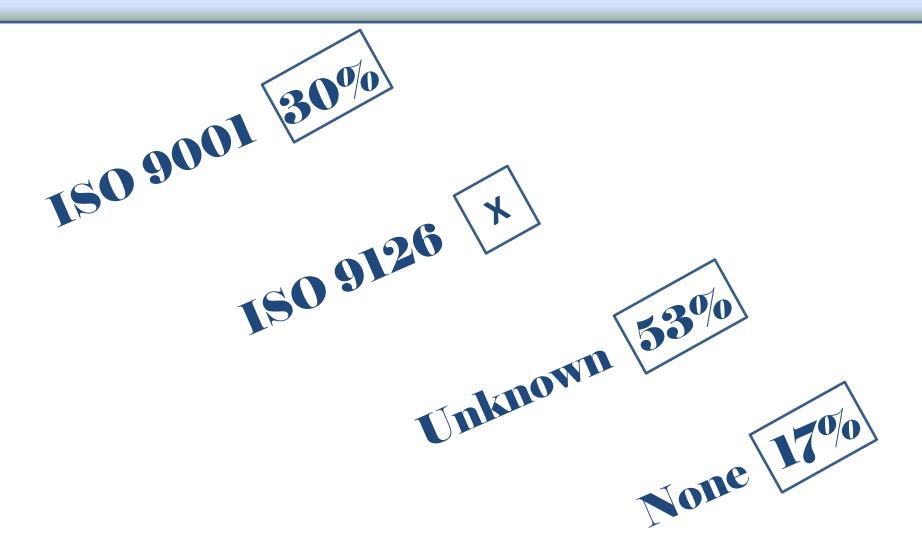
Testing

## 70% - developers themselves

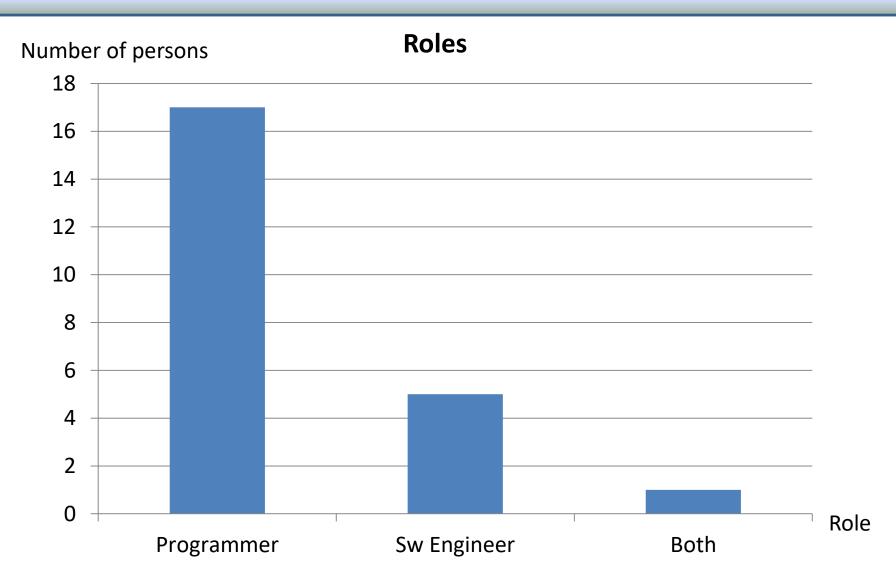
## 12% a special testing team



#### **Quality management approach**



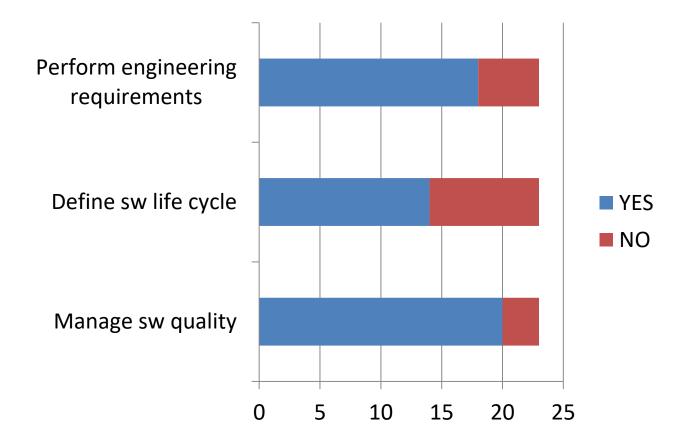
#### **Role in the project**



#### **Estimation for different aspect of the software**



#### **Evaluation for company**





## Conclusions

- Most of companies in Albania don't follow the suggested steps of SE while developing a Software.
- Most of the companies where the students work develop:
  - Web-based software
  - Medium-size software
- Most used models:
  - Waterfall
  - Incremental
- Requirements Specifications:
  - Informal & Semiformal
- Analysis and design technique:
  - Object -Oriented
- Testing:
  - No special team Developers

## **Proposed Ideas**

- Project leaders should insist more on a full documentation of the project from the beginning
- Companies should:
  - Have a quality approach
  - Have more practical process model
- Testing teams should:
  - Be trained
  - Have adequate size

