



Prototyping Forecasting e- Learning Platform

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Presentation Outline

- Aim of this study
- Basic Idea
- Architecture of moodle
- Moodle-contexts
- Moodle- ing to Forecast
 - Field of Applications
 - Get Informed
 - Get Trained
 - Get Involved
- Pilot in Inventory Demand Forecasting
- Conclusions
- Perspectives
- References

Aim of this study

This study aims to provide forecasting education to a wide range of users taking advantage of new technologies and distance learning.

Way to achieve it

Through a open source learning platform, which is single robust, secure and integrated system, suitable to create personalized learning environments.

Basic Idea

Application Fields of Forecasting



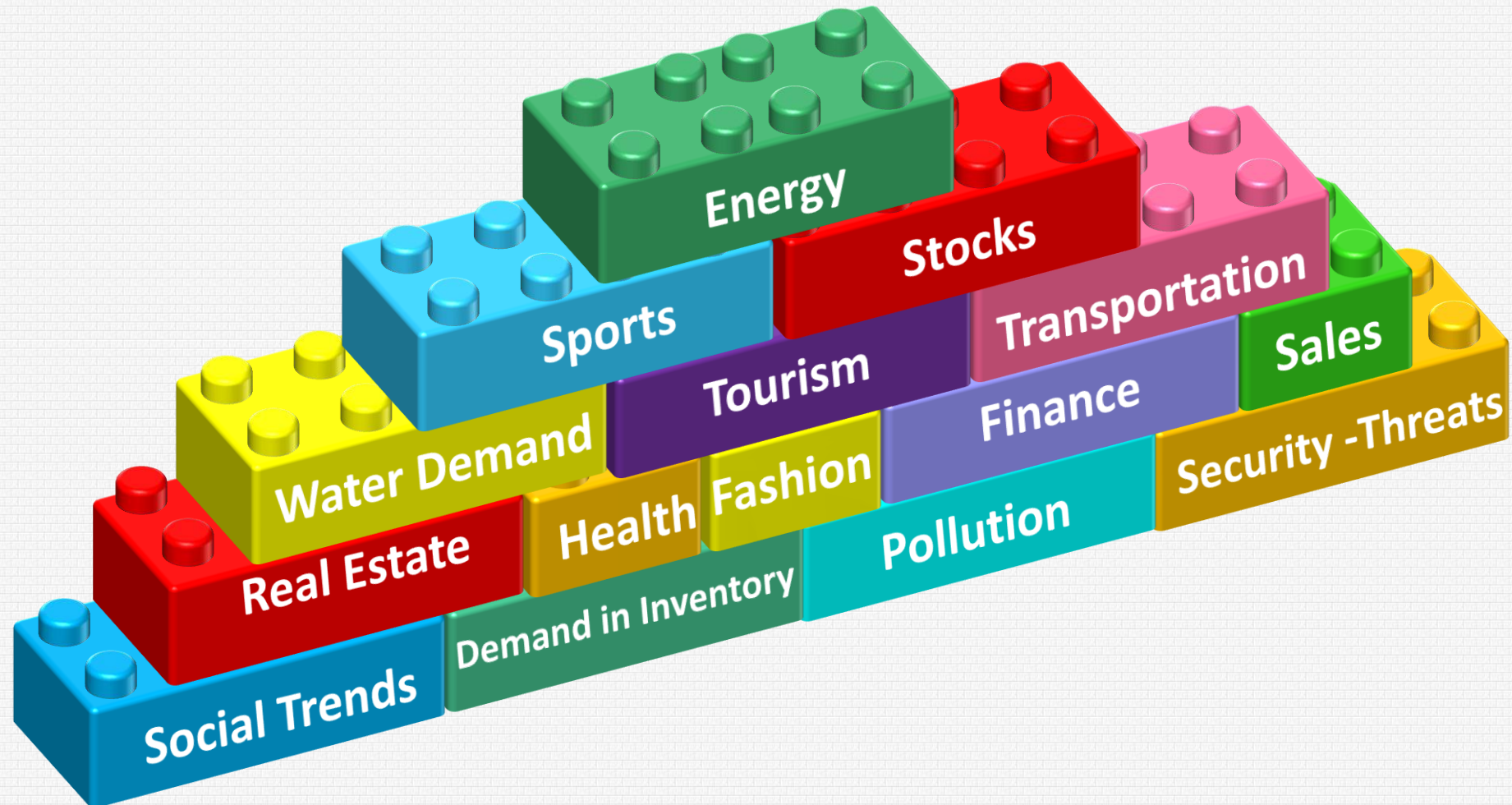
Attractive



Forecasting – Educated User



Application Fields of Forecasting



Basic Idea



Application Fields of Forecasting



Attractive



Forecasting – Educated User



- Problem solving – forecast
- Interesting storyline
- Clear mission & guidelines
- Pedagogical criteria

Target Group:

- Internet User
- Mathematical Background
- Interest in Forecasting

About moodle

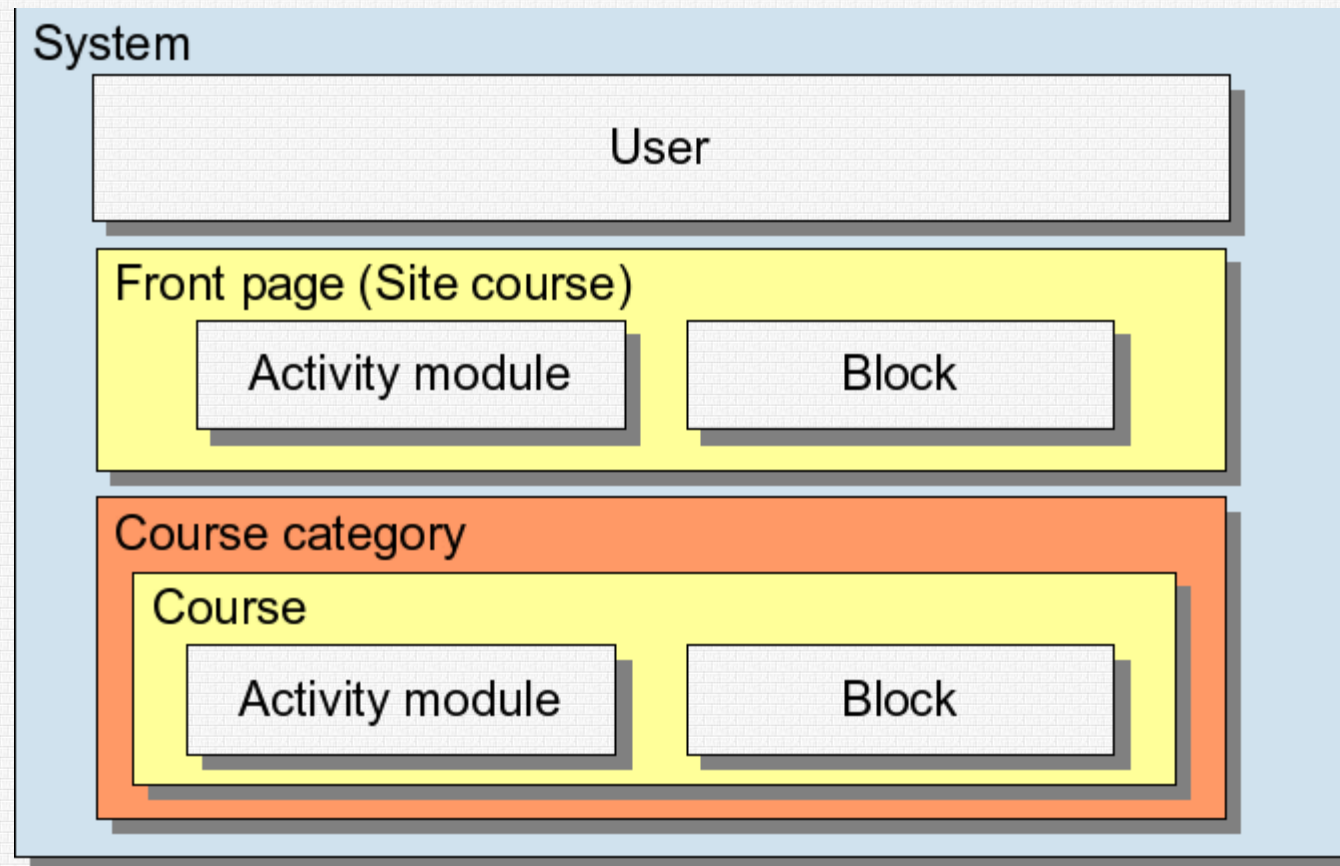
- Moodle is primarily developed in Linux using Apache, MySQL & PHP
- An Open Source Initiative
- IMS LTI™ Certified
- SCORM-ADL compliant
- Built for learning, globally (68 language)
- Highly flexible and fully customizable, easy to use
- Robust, secure and private, backed by a strong community

LOW HARDWARE & SOFTWARE REQUIREMENTS

- An operating system
- Web server
- PHP – min 5.3.2
- A database (MySQL, MSSQL, etc)
- Browser for accessing Moodle

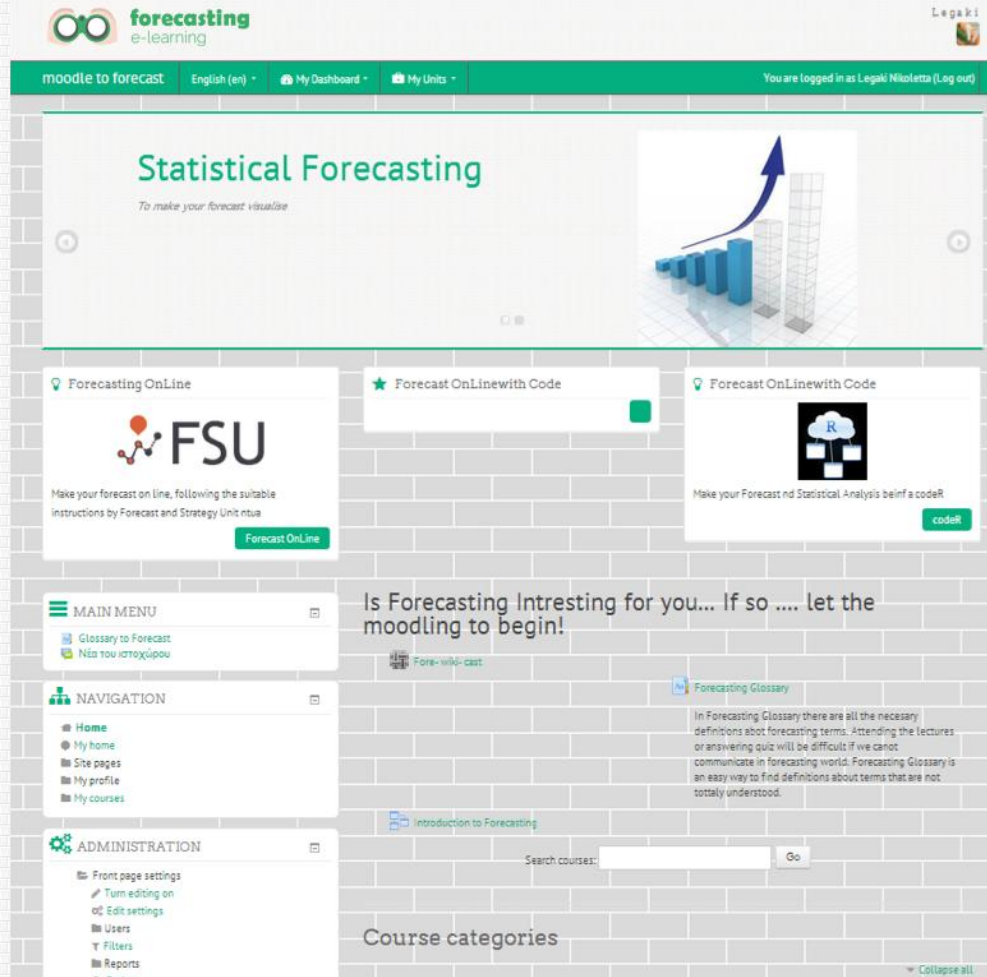
http://docs.moodle.org/dev/images_dev/5/5a/Moodle2erd.png

Moodle-contexts



Moodle - forecasting contexts

FRONT PAGE



Front Page

- Fields of Application
- Connection with R
- Connection with web-based forecast of FSU
- About initiative
- Personal Dashboards

Front Page Blocks

- Forecasting Glossary
- Forecasting Wiki
- Forecasting Forum
- Forecasting News
- Calendar

Moodle - forecasting contexts

Categories

- Field of application of forecasting

Courses

- Get informed
- Get trained
- Get involved

Blocks

- Chat
- Forum
- Quiz

Roles

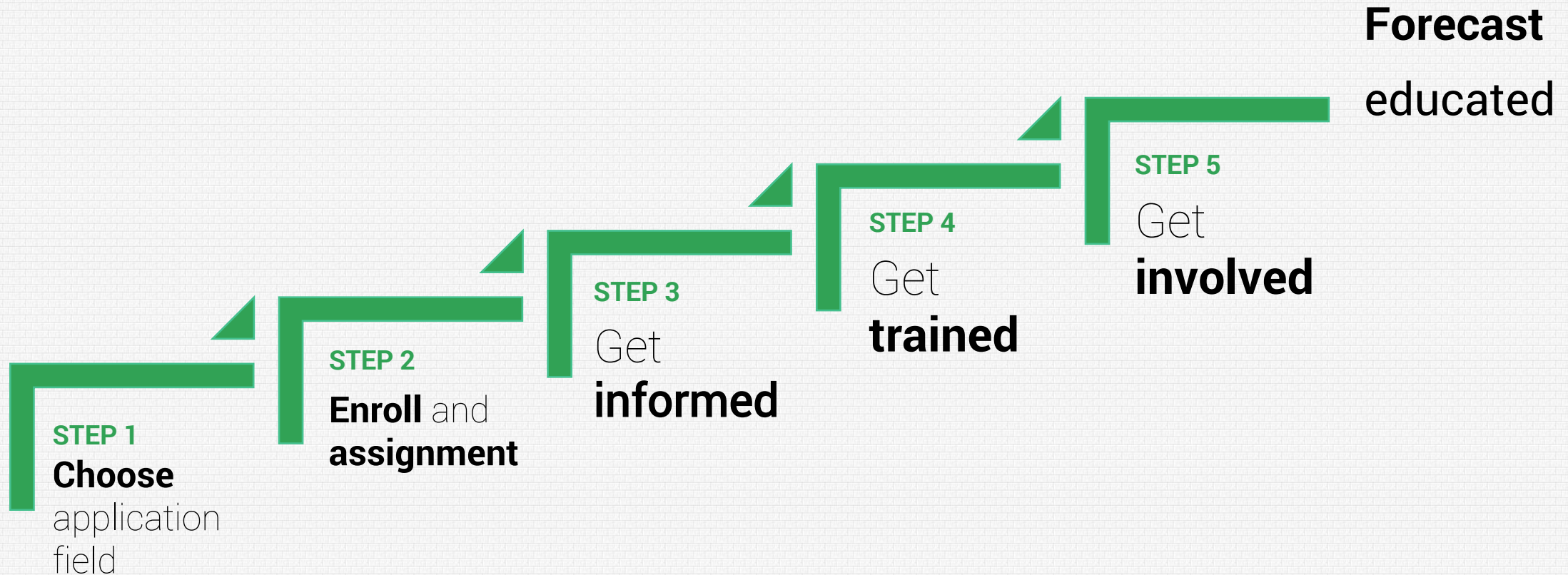
- Administrator
- Expert
- Forecaster per Application Field of Forecasting
- Junior Forecaster per Application Field of Forecasting
- Student per Application Field of Forecasting
- Guest

Education –

STEPS TO FORECAST

- **STEP 1:**
Problem definition.
- **STEP 2:**
Gathering information.
- **STEP 3:**
Preliminary (exploratory) analysis.
- **STEP 4:**
Choosing and fitting models.
- **STEP 5:**
Using and evaluating a forecasting model.

Moodle – ing to forecast step by step



STEP 1

Choose application field

Is Forecasting Interesting for you... If so let the moodling to begin!

Fore- wiki- cast [Edit](#)

Forecasting Glossary [Edit](#)

In Forecasting Glossary there are all the necessary definitions about forecasting terms. Attending the lectures or answering quiz will be difficult if we cannot communicate in forecasting world. Forecasting Glossary is an easy way to find definitions about terms that are not totally understood.

Introduction to Forecasting [Edit](#)

[+ Add an activity or resource](#)

Search courses: [Go](#)

Course categories

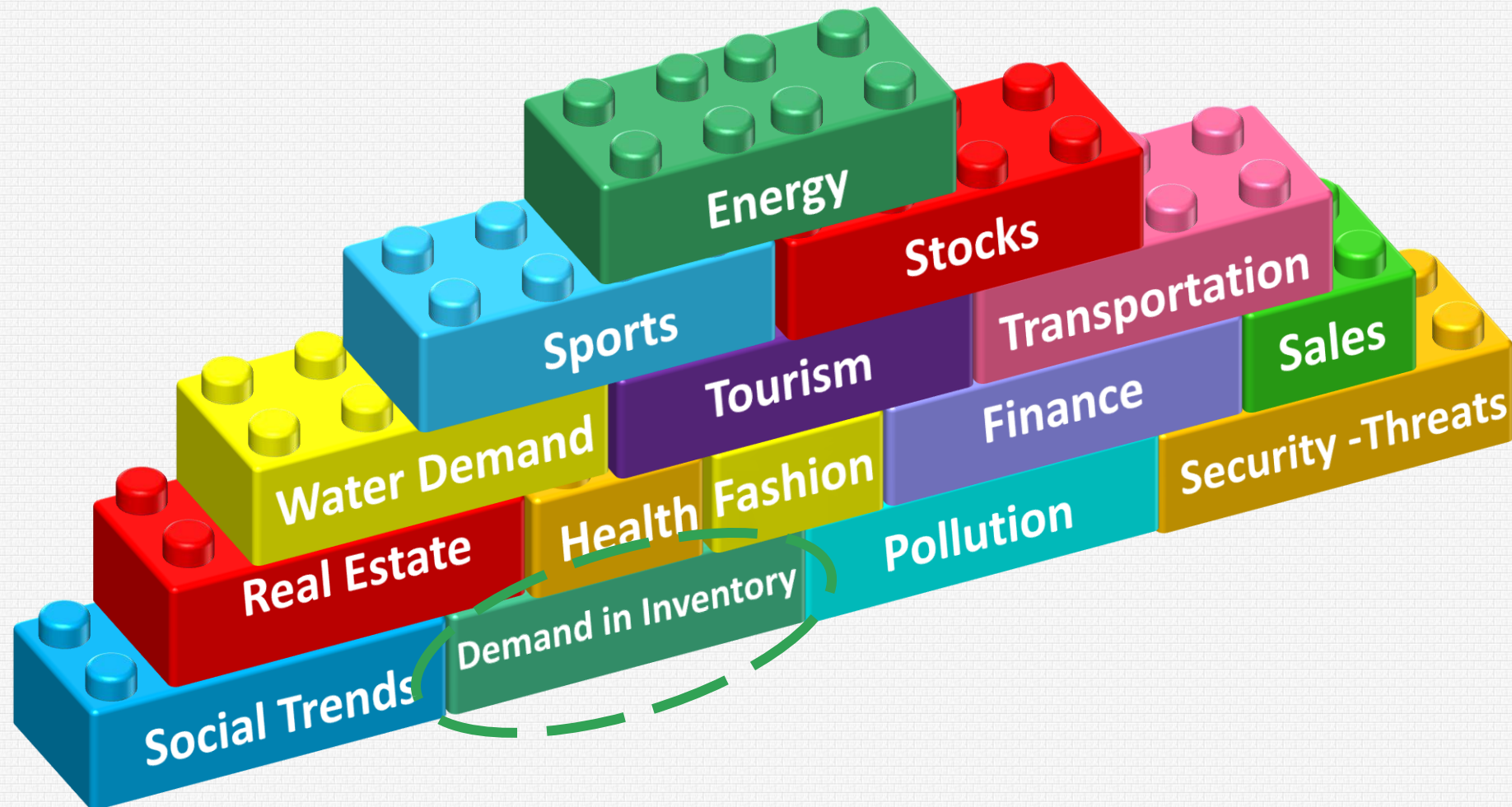
[Collapse all](#)

Energy Forecasti...	Forecasting abo...	Tourism Forecas...
Forecasting abo...	Forecasting abo...	Real Estate Forec...

Real Estate Forec...	Water Demand F...	Fashion Forecast...
Prediction Market	Sport Forecasting	Inventory Foreca...
Health Forecastin...	Sales Demand Fo...	Finance Forecast...
Stock Market Fo...	Prediction Market	Security
Social Media For...	Google Trend Fo...	

STEP 1

Choose Application field



STEP 1

Choose application field

Is Forecasting Interesting for you... If so let the moodling to begin!

* Fore- wiki- cast [Edit](#)

Forecasting Glossary [Edit](#)

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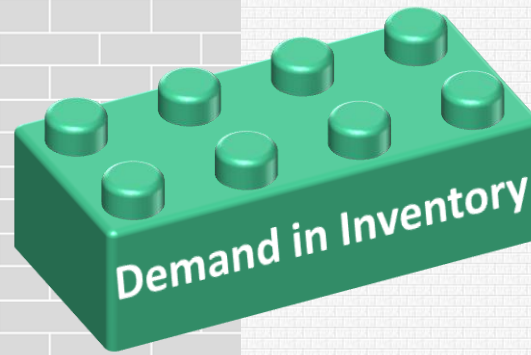
Introduction to Forecasting [Edit](#)

[+ Add an activity or resource](#)

Search courses: [Go](#)

Course categories [Collapse all](#)

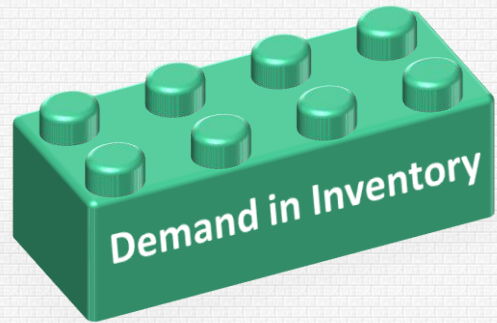
Energy Forecasti...	Forecasting abo...	Tourism Forecas..
Forecasting abo...	Forecasting abo...	Real Estate Forec..



Real Estate Forec...	Water Demand F...	Fashion Forecast...
Prediction Market	Sport Forecasting	Inventory Foreca...
Health Forecastin...	Sales Demand Fo...	Finance Forecast...
Stock Market Fo...	Prediction Market	Security
Social Media For...	Google Trend Fo...	

STEP 2

Enroll and assignment



forecasting e-learning Legaki


moodle to forecast English (en) My Dashboard My Units You are logged in as Legaki Nikoletta (Log out)

Search courses: Go


HOME COURSES INVENTORY-FORECASTING

Course categories: Inventory Forecasting


[Collapse all](#)



Get Informed



Get Trained



Get Involved

[Add a new course](#)

COURSE COMPLETION STATUS

Completion is not enabled for this site

NAVIGATION

- Home
- My home
- Site pages
- My profile
- My courses
- Courses
 - Energy Forecasting
 - Forecasting about Trasportation
 - Tourism Forecasting
 - Forecasting about polution
 - Forecasting about social eniroment
 - Real Estate Forecasting
 - Water Demand Forecasting
 - Fashion Forecasting
 - Prediction Market
 - Sport Forecasting
 - Inventory Forecasting**
 - Get Informed
 - Get Trained
 - Get Involved

MESSAGES

No messages waiting

[Messages](#)

COMMENTS

Add a comment...

[Save comment](#)

UPCOMING EVENTS

There are no upcoming events

[Go to calendar...](#)

[New event...](#)

STEP 3

Get informed

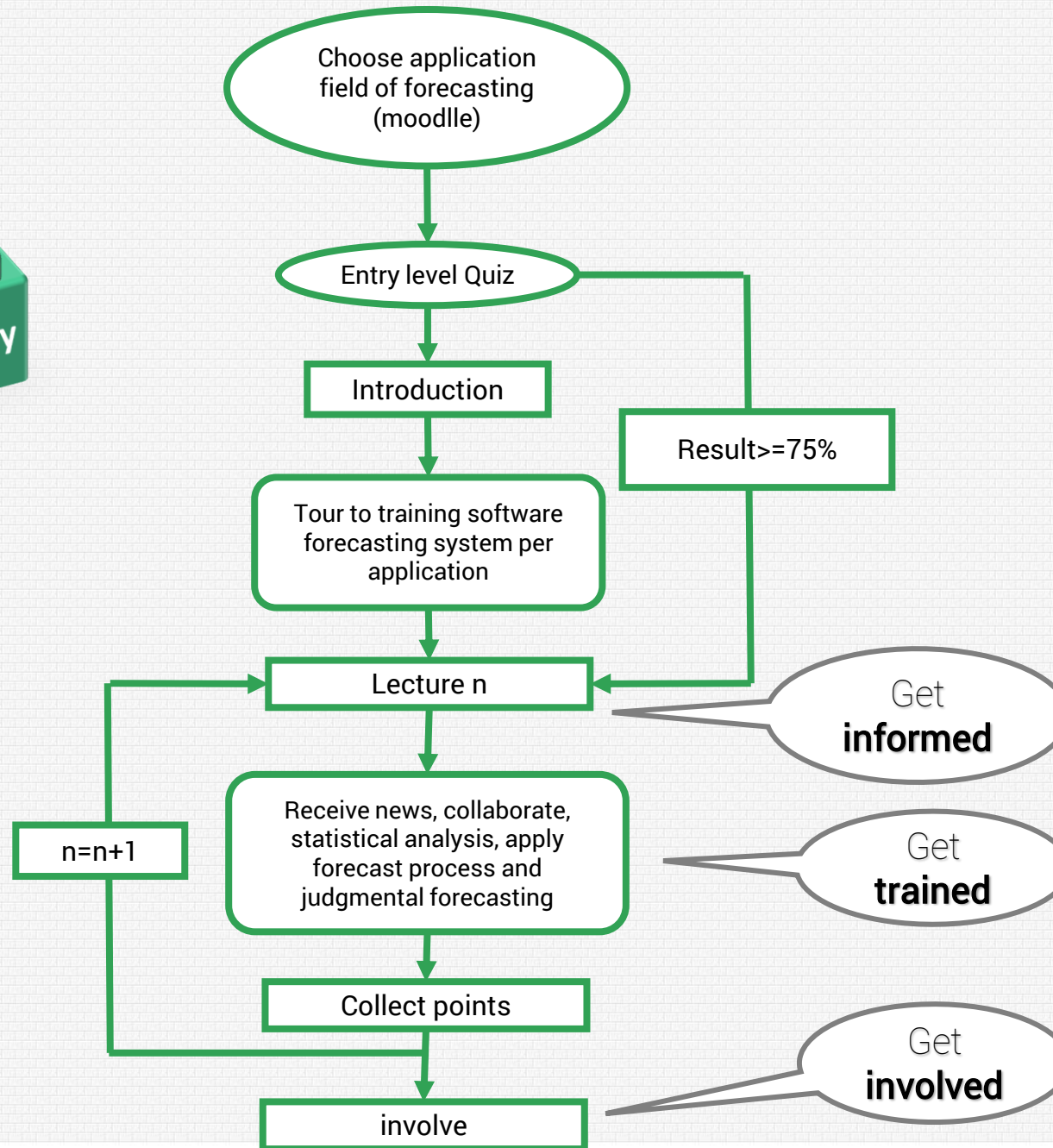
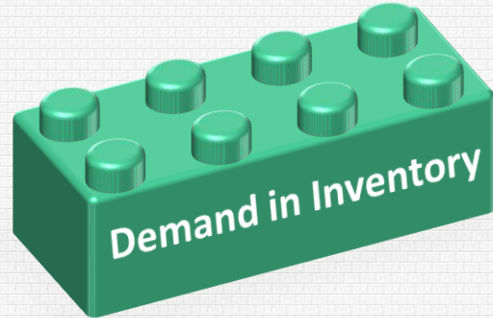


Get Informed

- Basic Principles
- Deeper Look at Forecasting
- Classification of SKUs
- State of the art
 - Commercial case studies – Software
 - Academic Research

STEP 4

Get **trained**

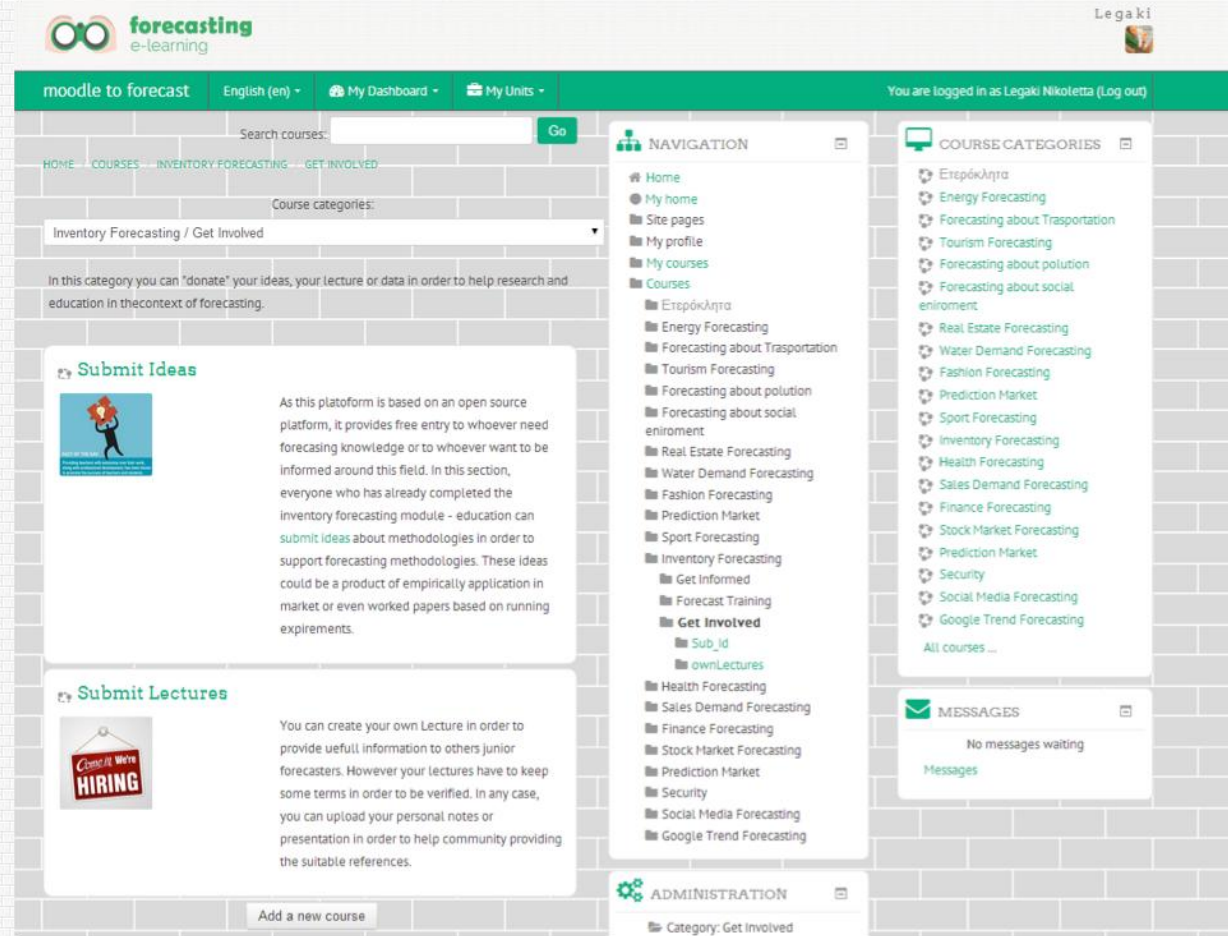


Tips

- n=6, six weeks lessons
- Collect points to get involved

STEP 5

Get involved



Get Involved

- Submit Ideas
- Submit Lectures



Depending on the points – credits that a user has

Key points - Conclusions

Education Process

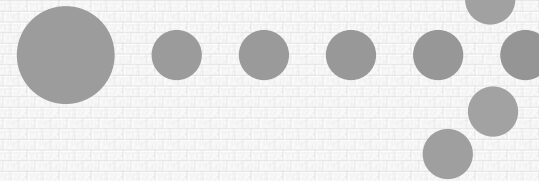
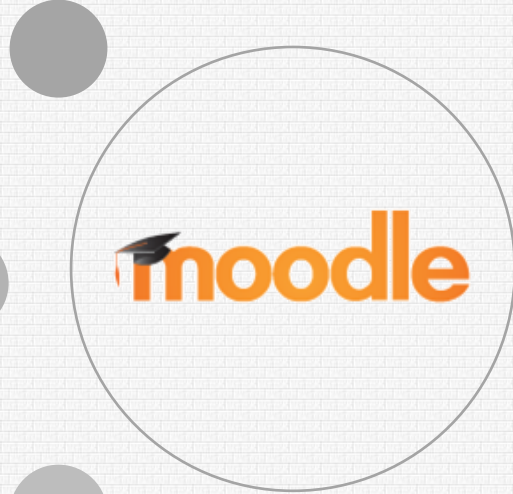


Application

Fields of forecasting



Gaming

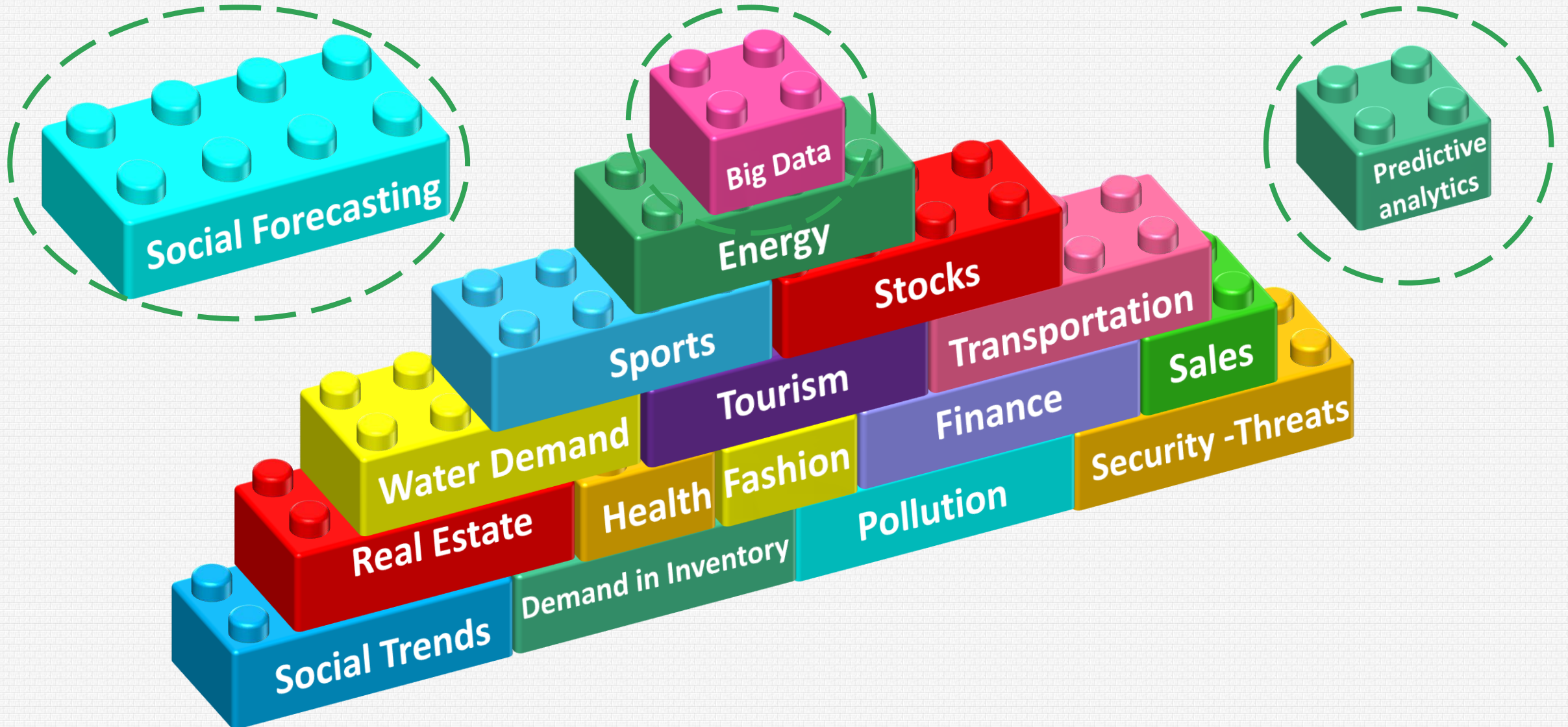


forecasting
e-learning

Perspectives (1/2)

- Integration of the platform
- Implementation and evaluation of the game in education
- Participation of post graduate and under graduate students
- Feedback
- Growth of forecasting community
- Evaluation of the study
- Collaboration between universities
- Implementation of all fields with the most “fashionable” ones

Perspectives (2/2)



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Thank you very much
for your attention

Q&A

& Happy forecast moodle- ing
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