

The background of the slide is a dark, atmospheric photograph. It shows a two-lane road with a yellow center line, receding into the distance. The road is flanked by dense evergreen trees. In the far background, jagged mountain peaks are visible, some covered in snow or light-colored rock, under a hazy sky. The overall tone is moody and scenic.

Context Aware Systems

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GIS Component

Load data from Postgre SQL

Move the map

Provide information depending on
the Context Situation



POI Component

Enable Points of Interests

Police stations

Gas stations



GPS Component

Loads information from the log file

Updates the Context Situation

Visualizes the positions of the satellites

Displays information of the log file



AAL Component

Choose different Context Elements

Parses the XML

DOM

Stream



CM Component

Manipulate Context Situation

Toggle broadcast

Record simulation

Play simulation



Rule System

Compiler with TreeNode

EQUALS, GREATER, LESS,
AND, OR

XML representation of rules

Reflection API



Context-Aware

Time

Warnings

Fuel





Demo

Lessons Learned

Mediator Pattern

Rule System

Compiler (javacc, lexer)



Problems

Complexity

Observer concept



Thank
you!