

# Tygron Environment Guide

Tygron Connect  
VH group 1

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# Contents

<b>1</b>	<b>Percepts</b>	<b>3</b>
<b>2</b>	<b>Actions</b>	<b>6</b>

# Summary

In this document you can find the list of actions and percepts that are implemented in the Tygron environment. The environment can be downloaded from our Jenkins server located at: <http://jenkins.buildwise.eu/job/tygron-connect/lastBuild/>

## Chapter 1

# Percepts

This section will list all the percepts that are usable in the Tygron environment, there are currently two types of percepts: **Send once** and **Send on change**. For the implementation of these percepts in your GOAL code, please refer to the GOAL manual.

## 1.1 Send once percepts

### Stakeholder percept

Description	Information about the stakeholders present in the map.
Type	Send once
Syntax	stakeholder(<ID>, <Name>, <ShortName>)
Parameters	<ID>: Unique number of the stakeholder. <Name>: The name of the stakeholder (eg. Housing Corporation). <ShortName>: The short name of the stakeholder (eg. DUWO).

### InitIndicator percept

Description	Weights of the indicators in the map.
Type	Send once
Syntax	initIndicator(<SID>, <IID>, <Weight>)
Parameters	<SID>: ID of the stakeholder for which this percept has this weight. <IID>: The ID of the indicator. <ShortName>: The weight of the indicator.

## 1.2 On change percepts

### Indicator percept

Description	Information about the indicators present in the map.
Type	Send on change
Syntax	indicator(<ID>, <Type>, <Name>, <Progress>, <Current>, <Target>)
Parameters	<ID>: Unique number of the indicator. <Type>: The type of indicator (eg. finance). <Name>: The name of the indicator. <Progress>: the progress of the indicator (current / target). <Current>: The current value of the indicator. <Target>: The target value of the indicator.

### Economy percept

Description	Information about the economies present in the map.
Type	Send on change
Syntax	economy(<ID>, <Category>, <State>)
Parameters	<ID>: Unique number of the economy. <Category>: The category of the economy. <State>: The state of the economy.

## Chapter 2

# Actions

In this section, You will find all the actions present in the latest stable Tygron environment, these actions can all be performed by the GOAL agent. The actions should be implemented with an actionspec.

## 2.1 General actions

### Build action

Description	Build.
Syntax	build(<Surface>, <Type>)
Parameters	<Surface>: The size of the surface to build on. <Type>: The type of building to be built, this is a natural number with: 1 = building, 2 = park and 3 = parking lot.
Effects	Builds a park, building or parking lot on an available piece of land.

### Buy land action

Description	Buy land.
Syntax	buyLand(<Surface>, <Cost>)
Parameters	<Surface>: The size of the surface to buy. <Type>: The cost to buy this piece of land.
Effects	Buys land from another stakeholder.