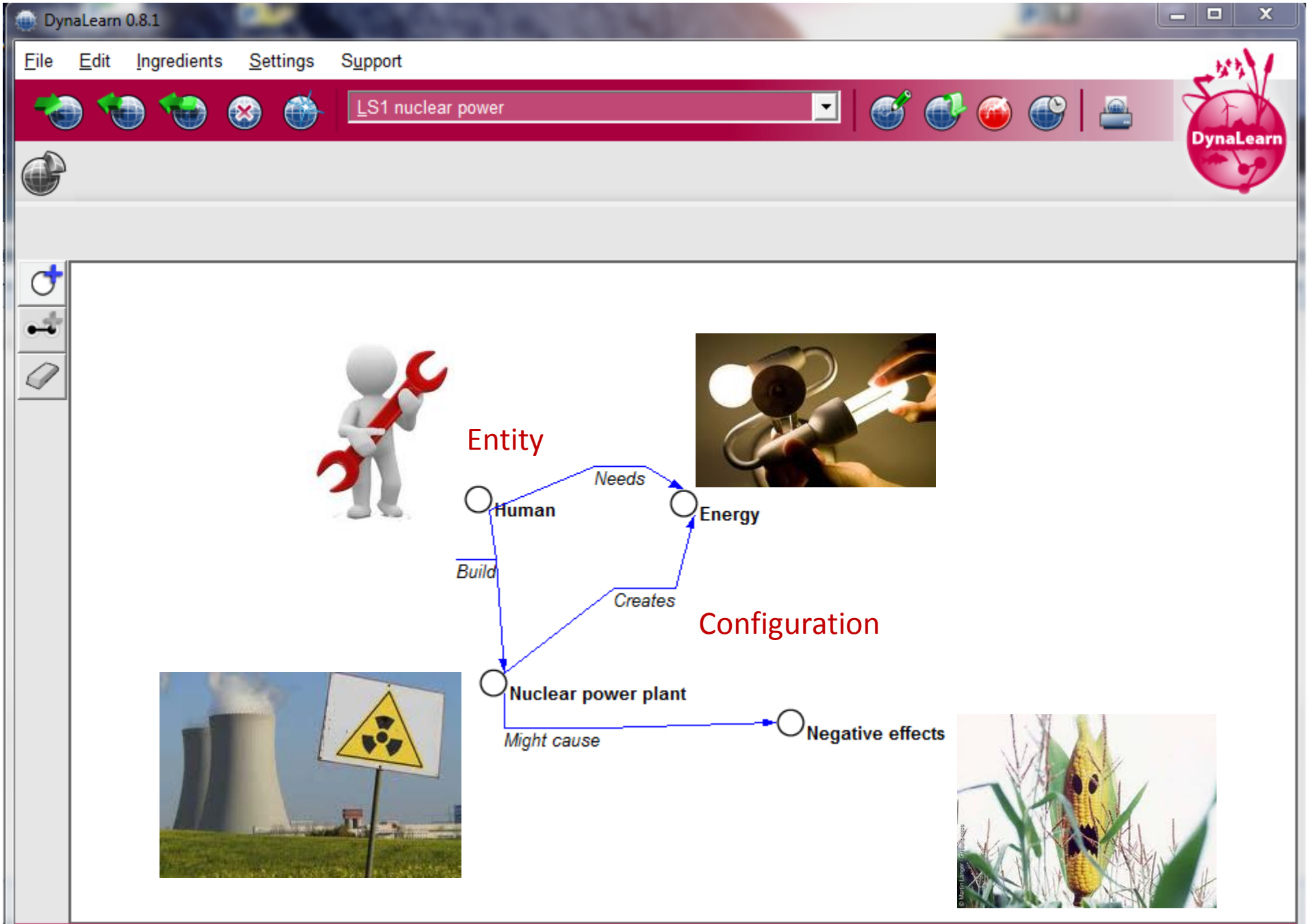
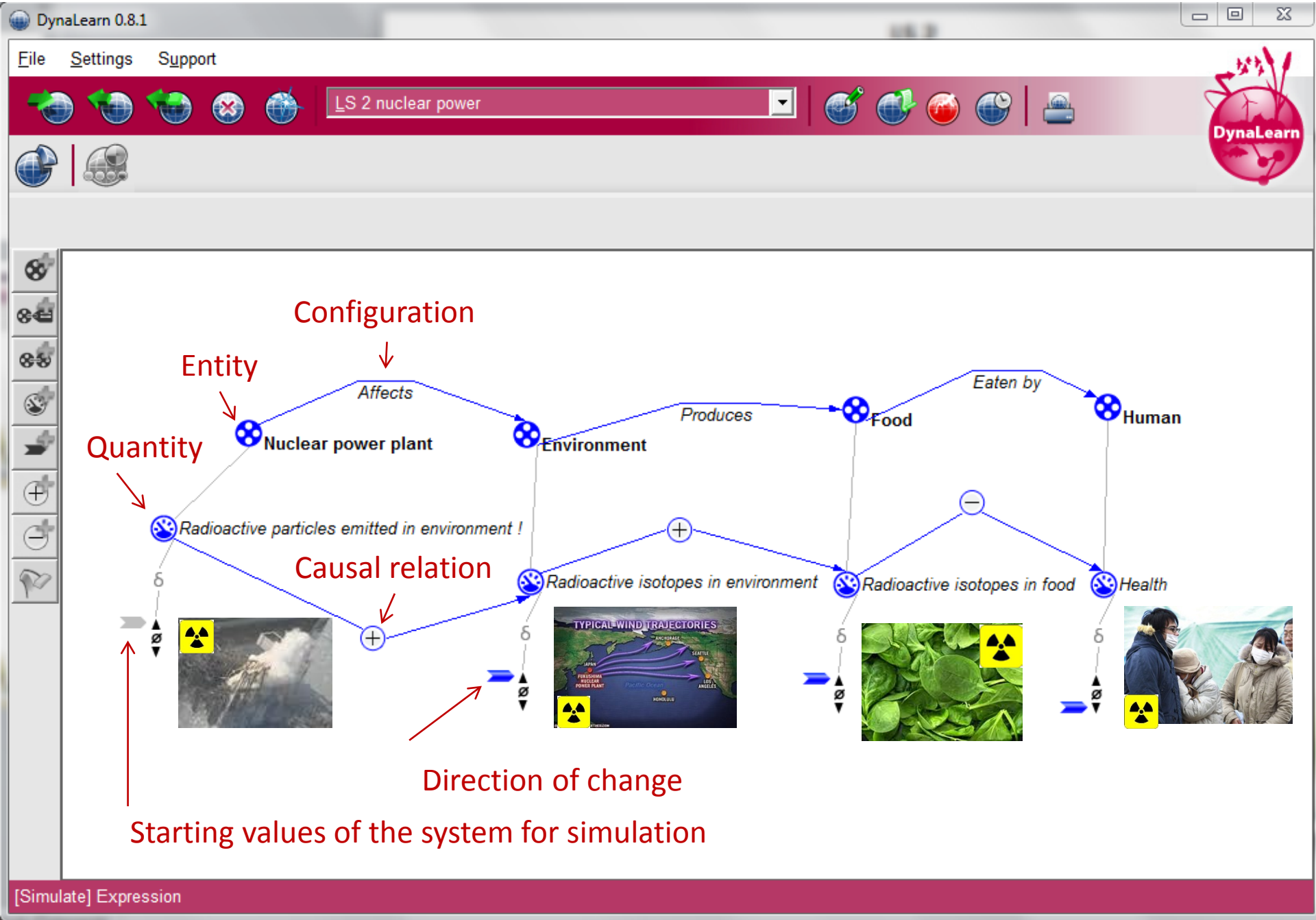
The world in

DynaLearn

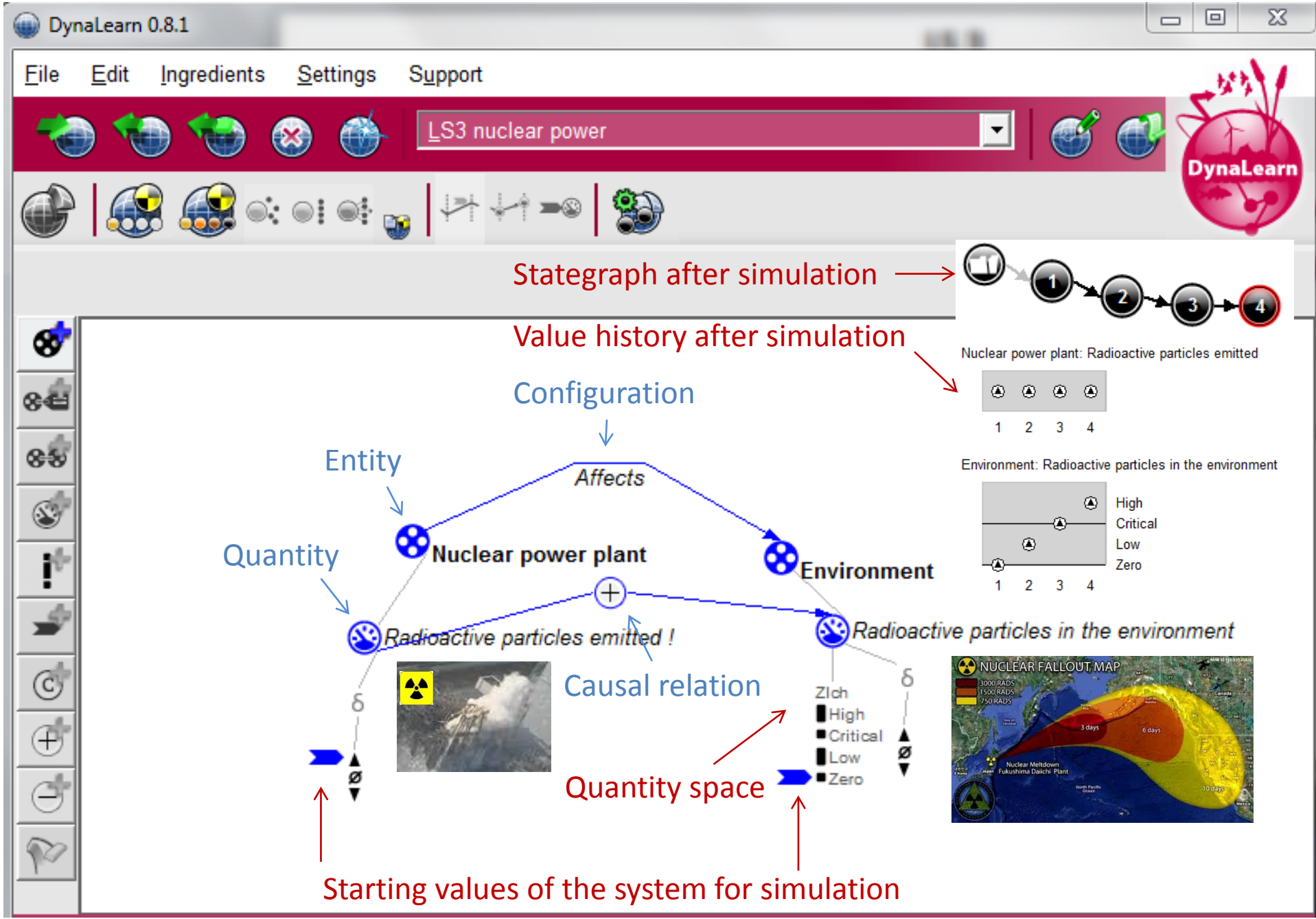
LS 1


DynaLearn 0.8.1
File
Edit
Ingredients
Settings
Support
LS1 nuclear power
DynaLearn
Entity
Needs
Human
Energy
Build
Creates
Configuration
Nuclear power plant
Might cause
Negative effects

LS 2


DynaLearn 0.8.1
File
Settings
Support
LS 2 nuclear power
DynaLearn
Configuration
Entity
Quantity
Causal relation
Affects
Produces
Eaten by
Nuclear power plant
Environment
Food
Human
Radioactive particles emitted in environment !
Radioactive isotopes in environment
Radioactive isotopes in food
Health
TYPICAL WIND TRAJECTORIES
Direction of change
Starting values of the system for simulation
[Simulate] Expression

LS 3


DynaLearn 0.8.1
File
Edit
Ingredients
Settings
Support
LS3 nuclear power
DynaLearn
Stategraph after simulation
1
2
3
4
Value history after simulation
Nuclear power plant: Radioactive particles emitted
1 2 3 4
Environment: Radioactive particles in the environment
High
Critical
Low
Zero
1 2 3 4
Configuration
Entity
Affects
Quantity
Nuclear power plant
Environment
Radioactive particles emitted !
Radioactive particles in the environment
Causal relation
δ
ZIch
High
Critical
Low
Zero
δ
NUCLEAR FALLOUT MAP
3000 RADS
1500 RADS
750 RADS
3 days
6 days
10 days
Nuclear Meltdown
Fukushima Daiichi Plant
Quantity space
Starting values of the system for simulation

LS 4

Stategraph and value history after simulation

DynaLearn 0.8.1

File Edit Ingredients Settings Support

LS4 nuclear power

Nuclear power plant: Radioactive particle emission rate
Plus
Zero
1 2 3

Environment: Amount of radioactive particles
High
Critical
Low
Zero
1 2 3

Food: Amount of radioactive particles
High
Critical
Low
Zero
1 2 3

Configuration

Entity

Quantity

Affects

Affects

Nuclear power plant

Environment

Food

Radioactive particle emission rate

Amount of radioactive particles

Amount of radioactive particles

Zp
Plus
Zero

δ

I+

Zlch
High
Critical
Low
Zero

δ

P+

Zlch
High
Critical
Low
Zero

δ

Q

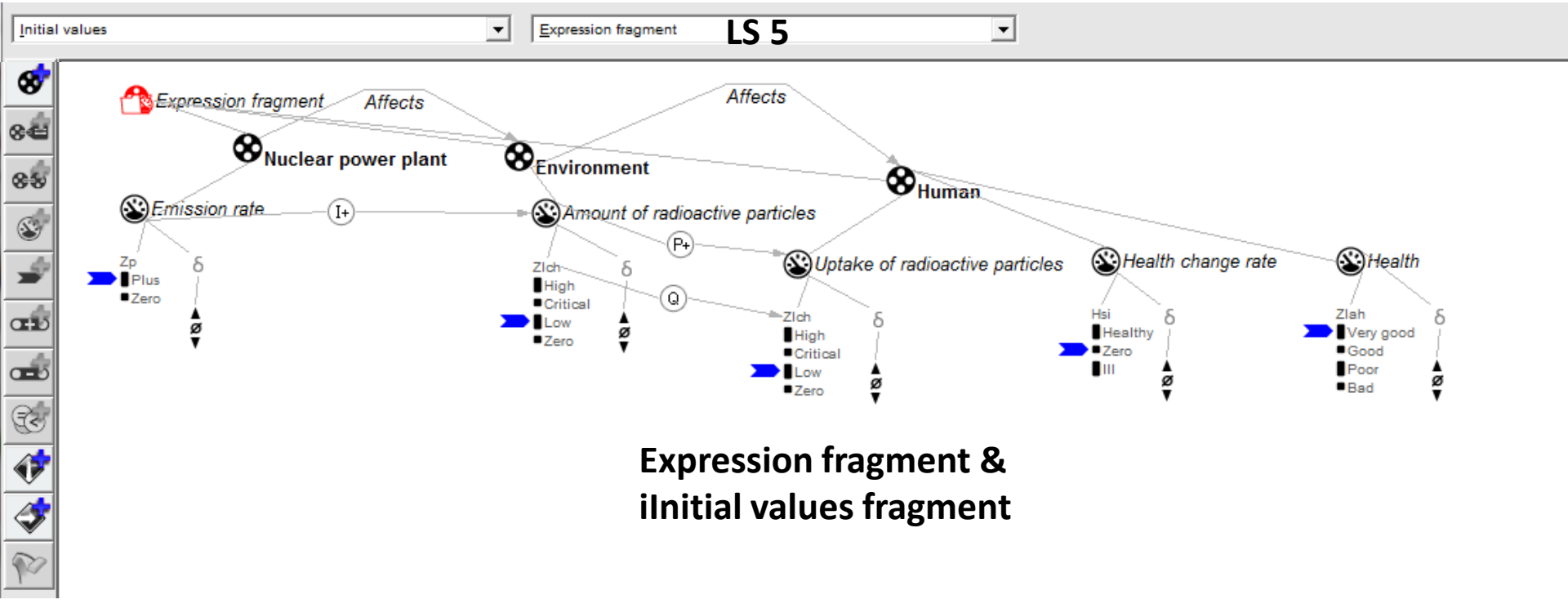
Influence or rate
(adds and substracts
to state variables)

Quantity space

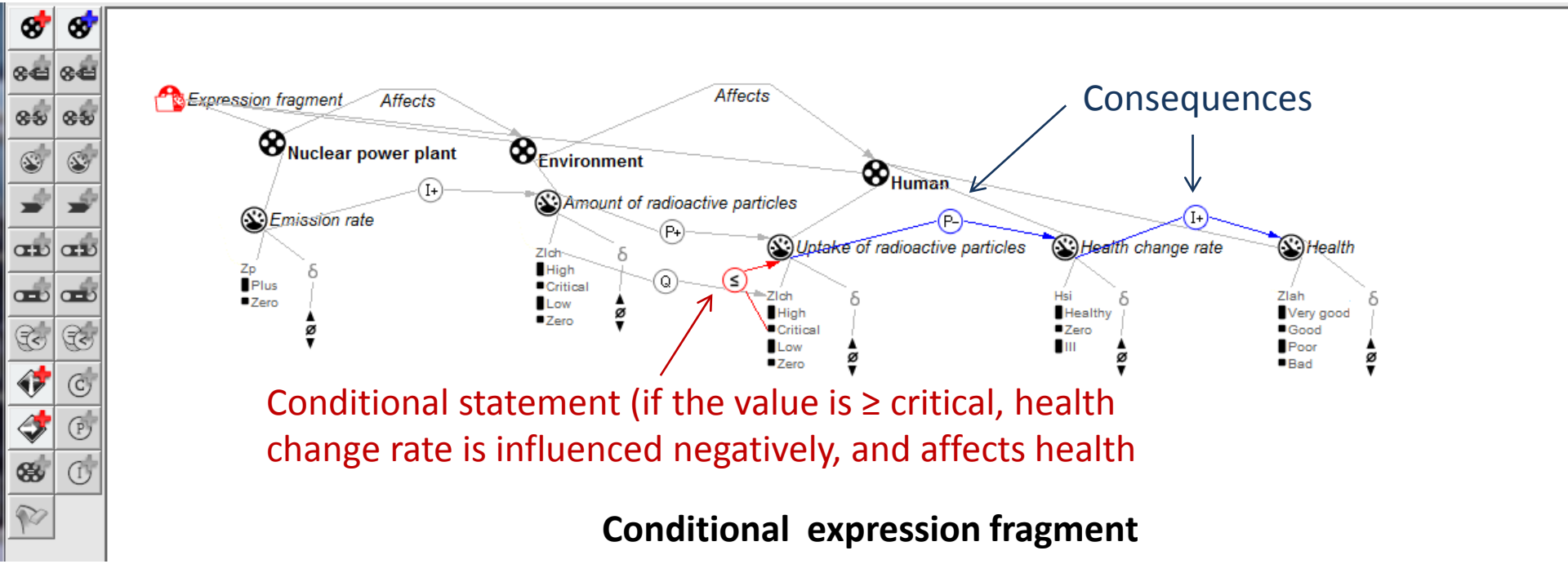
Proportionality
between two
quantity spaces

Starting values of the system for simulation

Correspondence
(correlation)



Expression fragment &
iInitial values fragment



Conditional statement (if the value is ≥ critical, health change rate is influenced negatively, and affects health

Conditional expression fragment