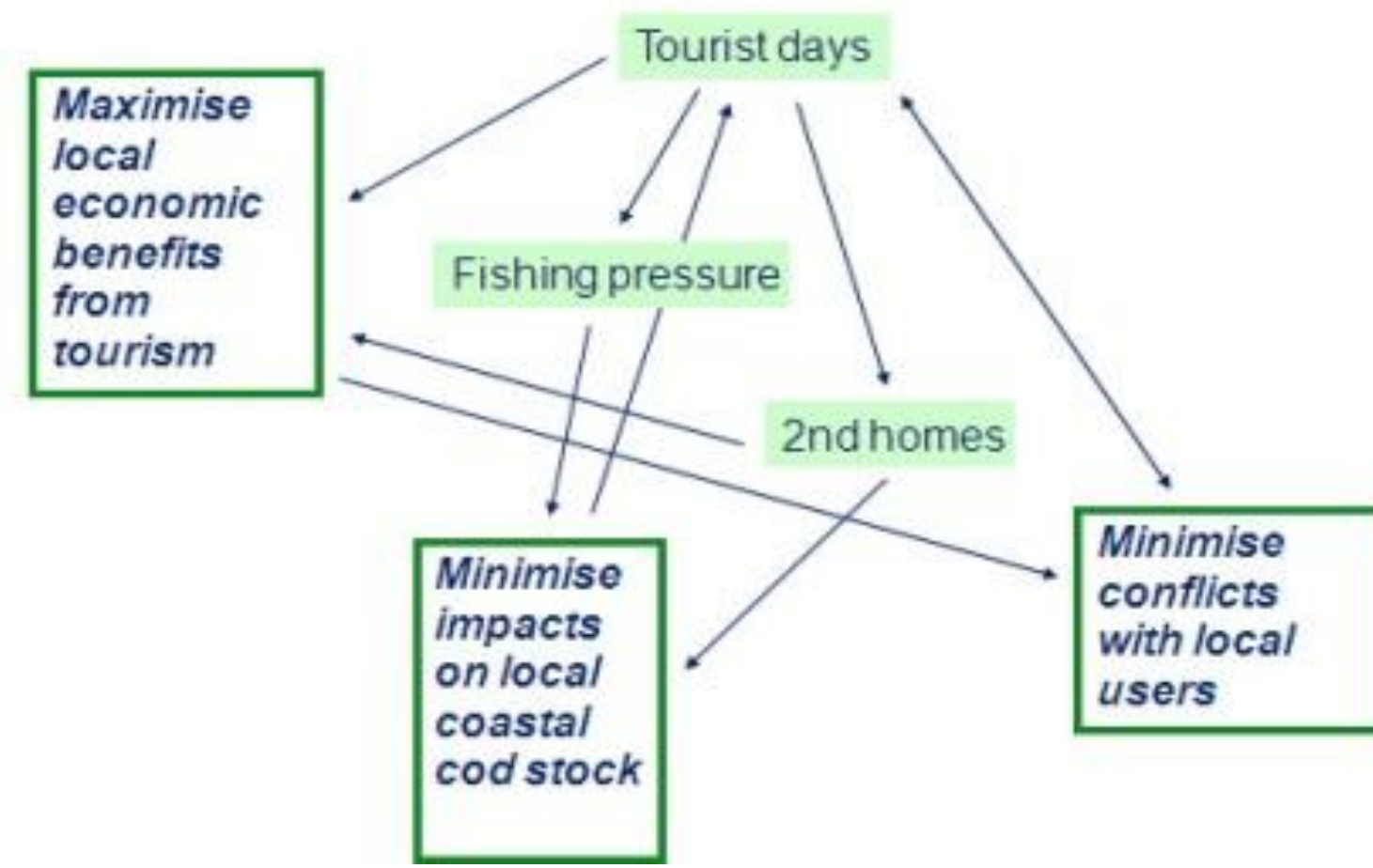


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Policy issue & examples of links



ExtendSim Model coding

Guillaume Lagaille, 1point2, France



INPUT:

- Cod recruitment
- Seal and bird populations
- Tourist numbers by category
- Accommodation capacity
- Other user groups
- Regulations

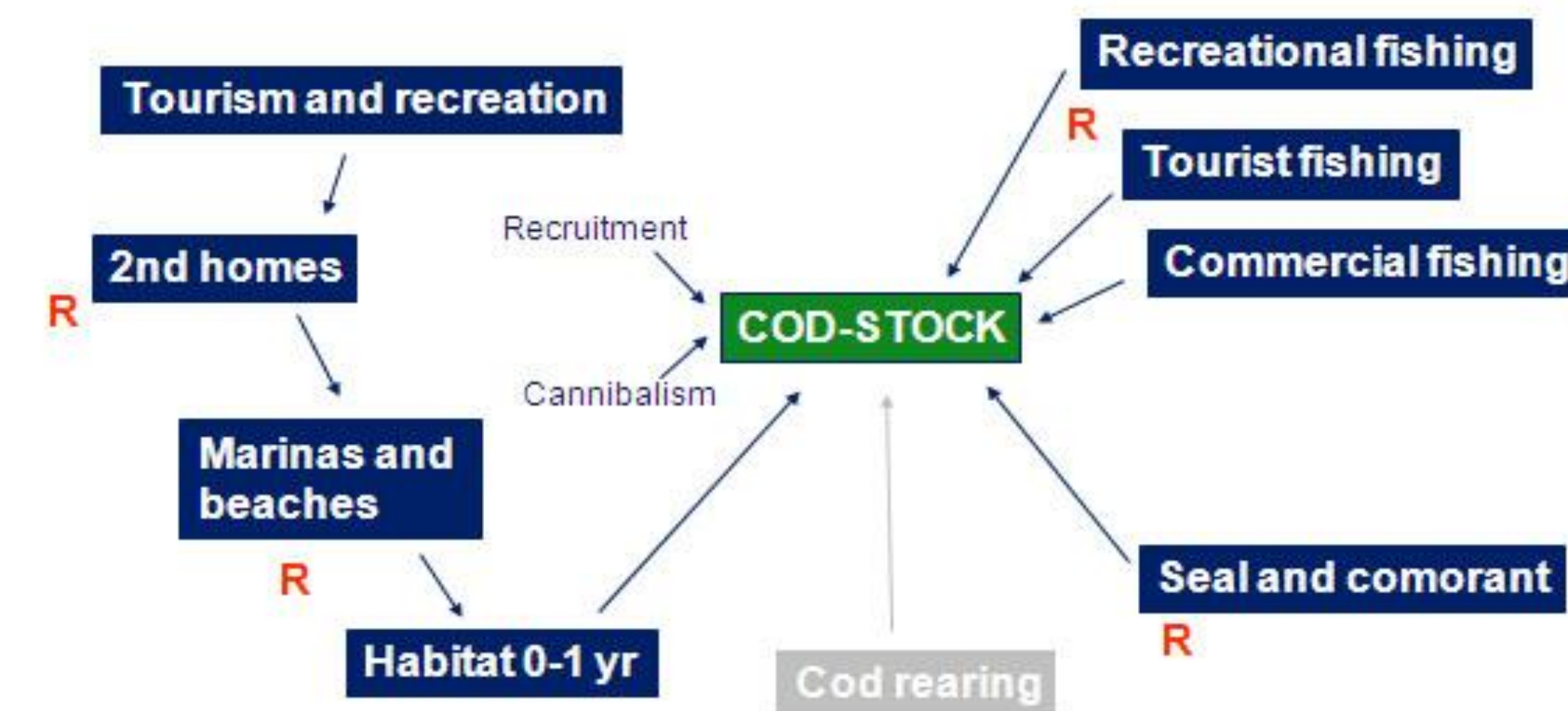
The Policy Issue

Increase local economic benefits from tourism, while minimizing negative impacts on local coastal cod stock and conflicts with local users of the fjord system.

OUTPUT:

- Status local cod population
- Local economic benefits
- Economic benefit by category
- Conflict indicator

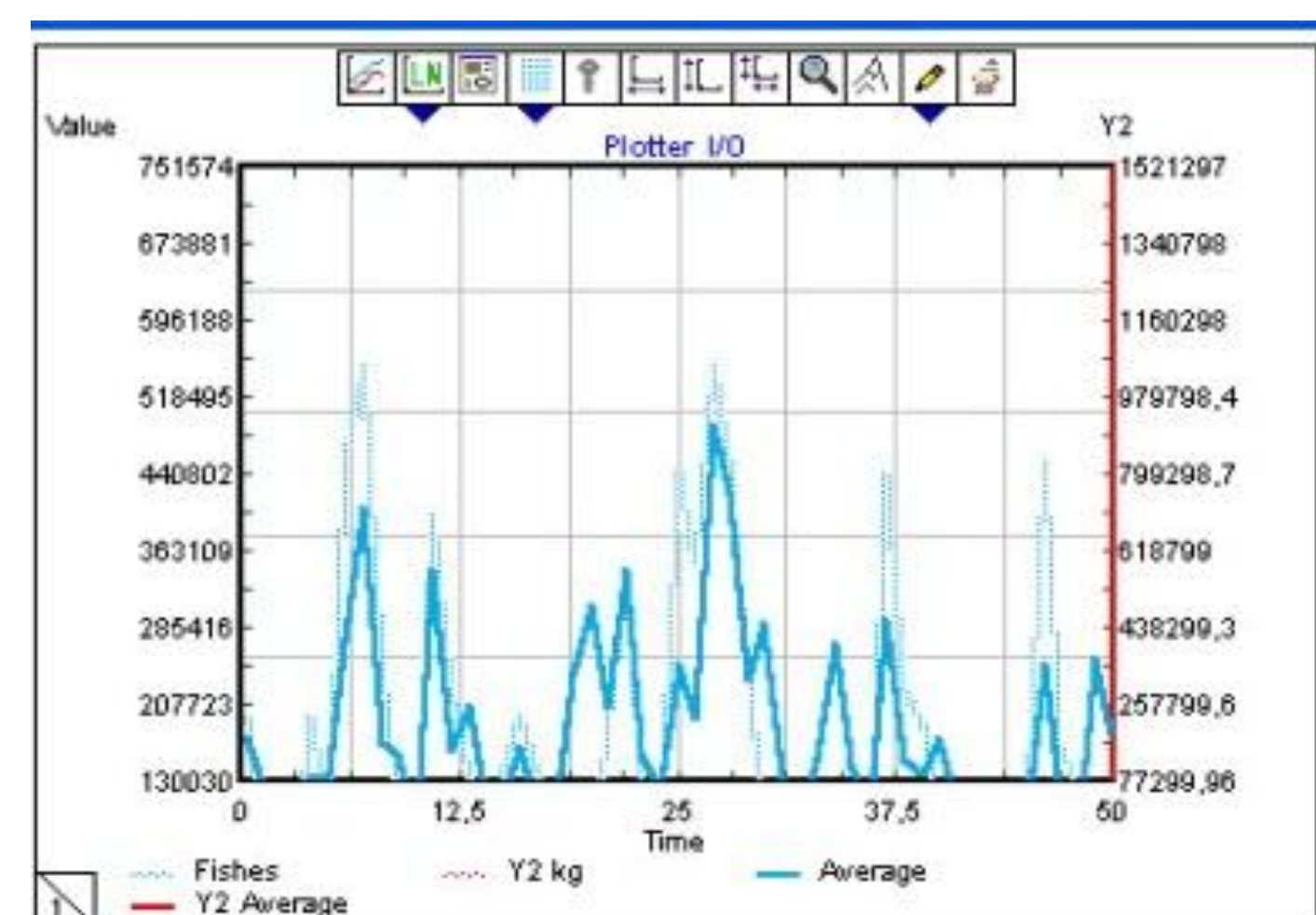
Factors affecting cod stock



Local economic benefits from tourism



- Tourist Categories:**
- Hotel-tourists
 - 2nd home owners
 - Fishing tourists
 - 2nd home renters
 - Camping-tourists



Density (0+1 groups): 1843,6 Fishes / km2
 BioMass (2-10 groups): 0,4311 Tons / km2
 Commercial fishing: 0,2697 Tons / km2
 Conflict factor: 15,99
 Local income: 103420000 NOK

LOCAL COD REGULATION MODEL

Regulations: 0G (951 fishes/km2), 1G (892 fishes/km2), 2G (0.43 tons/km2), 10G (1.86 index), conflict (15.9), Local benefit (103 M.NOK), Tourist day (906 Tour/day)

Inputs: Environmental Components (NC), Social Components (SC), Economy Components (EC), Indicators

Outputs: Cod pop. history, Biomass history, Tourists history, Local benefit, Results

NC COMPONENTS: Barents Sea, Norwegian Sea

SC & EC COMPONENTS: Images of tourists and buildings

Results: Total pop., delta pop., Authorized, Actual, Catch(tons), Active day, Tourist day, Fleet, Delta, Days

Legend: Predation (red), Harvest (blue), Stock Enhancement (green)

Logos: HOGSKOLEN I BODØ, SPICOSA, NORUT, UNIVERSITY OF TROMSØ

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