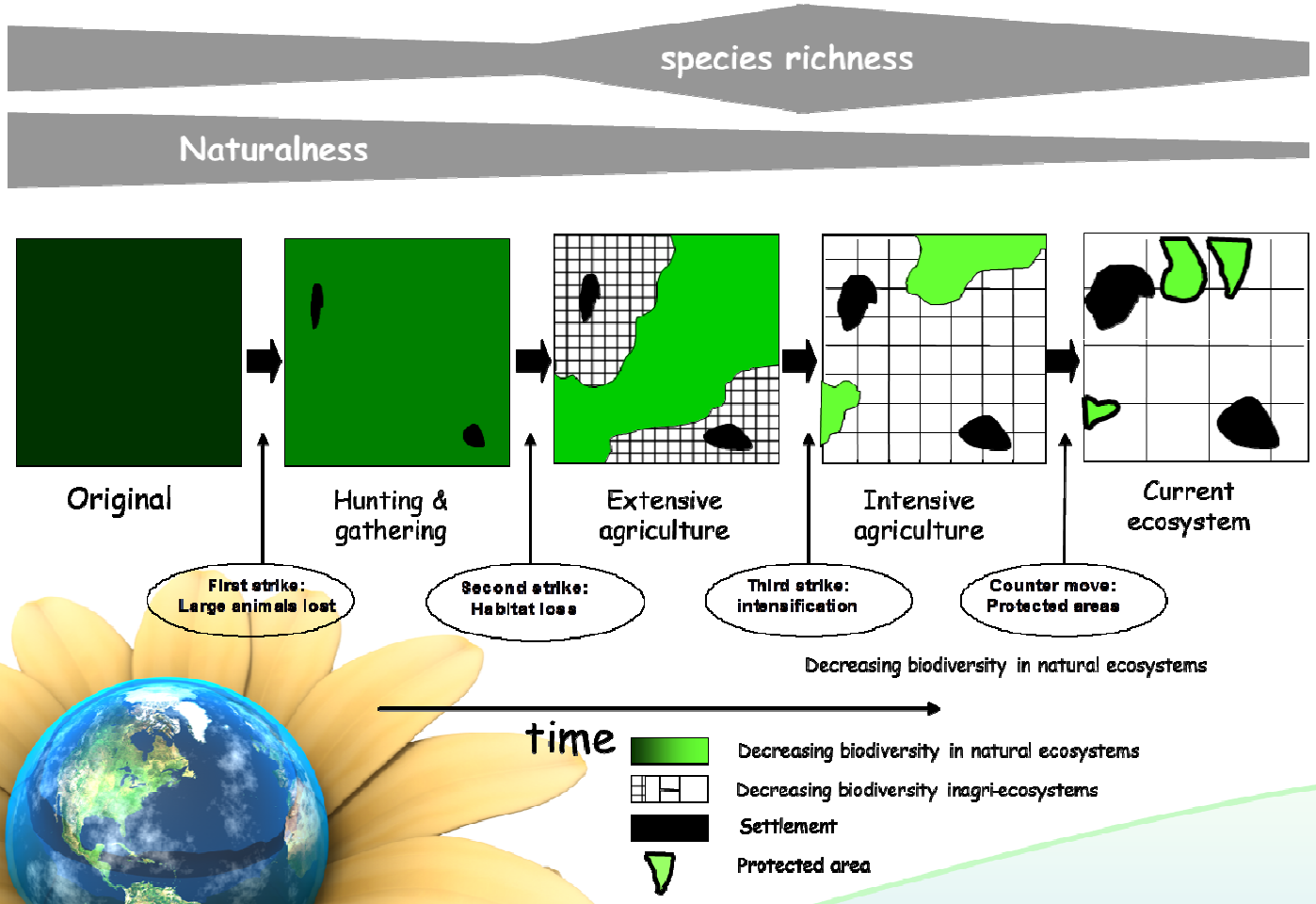
Recap of Regional Scenario and Policy Analysis Workshop on 21 May 2013

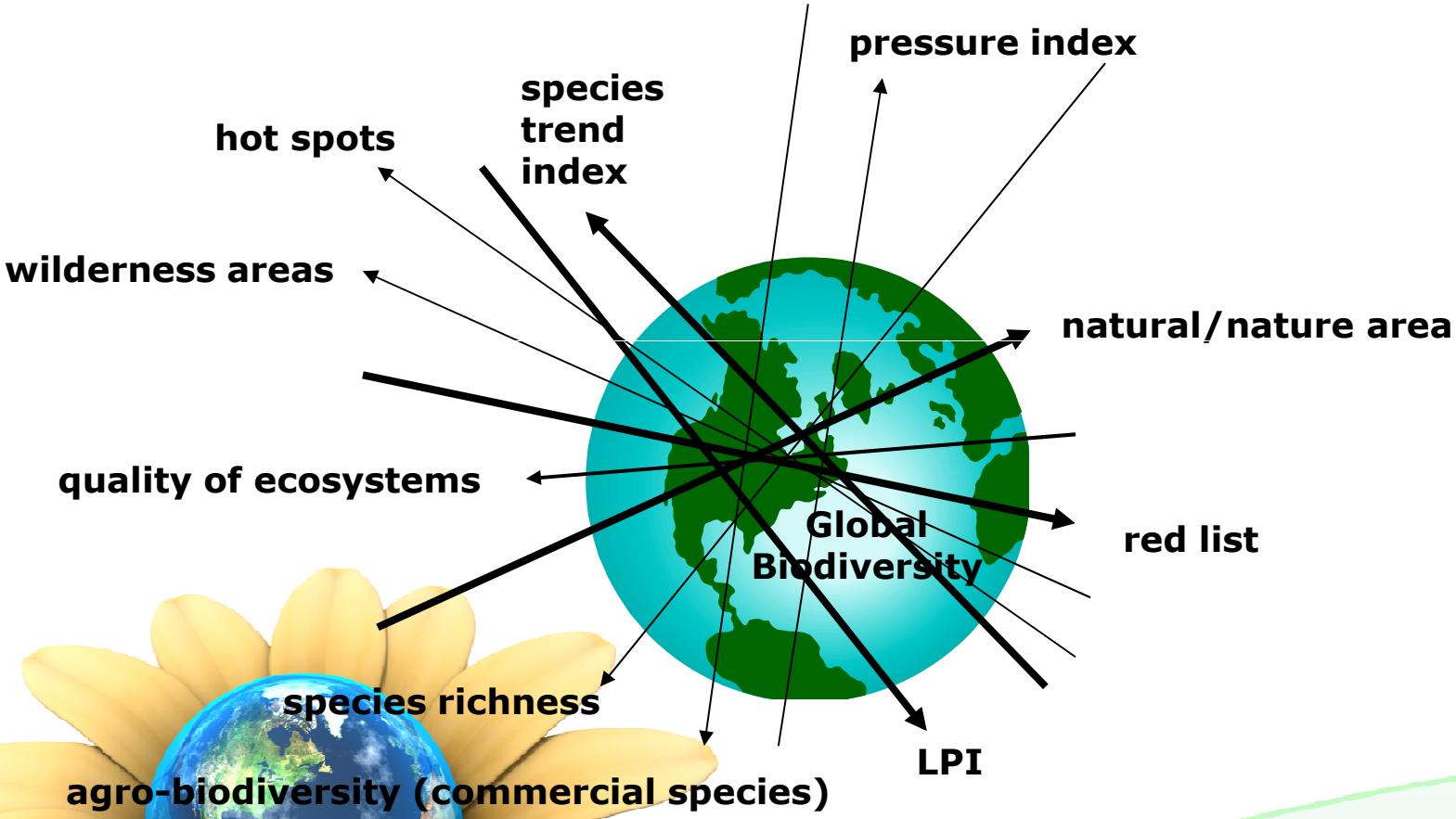
Summary

1. Ice-breaking
2. Biodiversity loss and indicators
3. Working session: pressures, drivers and indicators
4. Introduction to GLOBIO3 model – terrestrial modelling
5. Land use scenario model
6. Evening assignment: Pressures and policy options

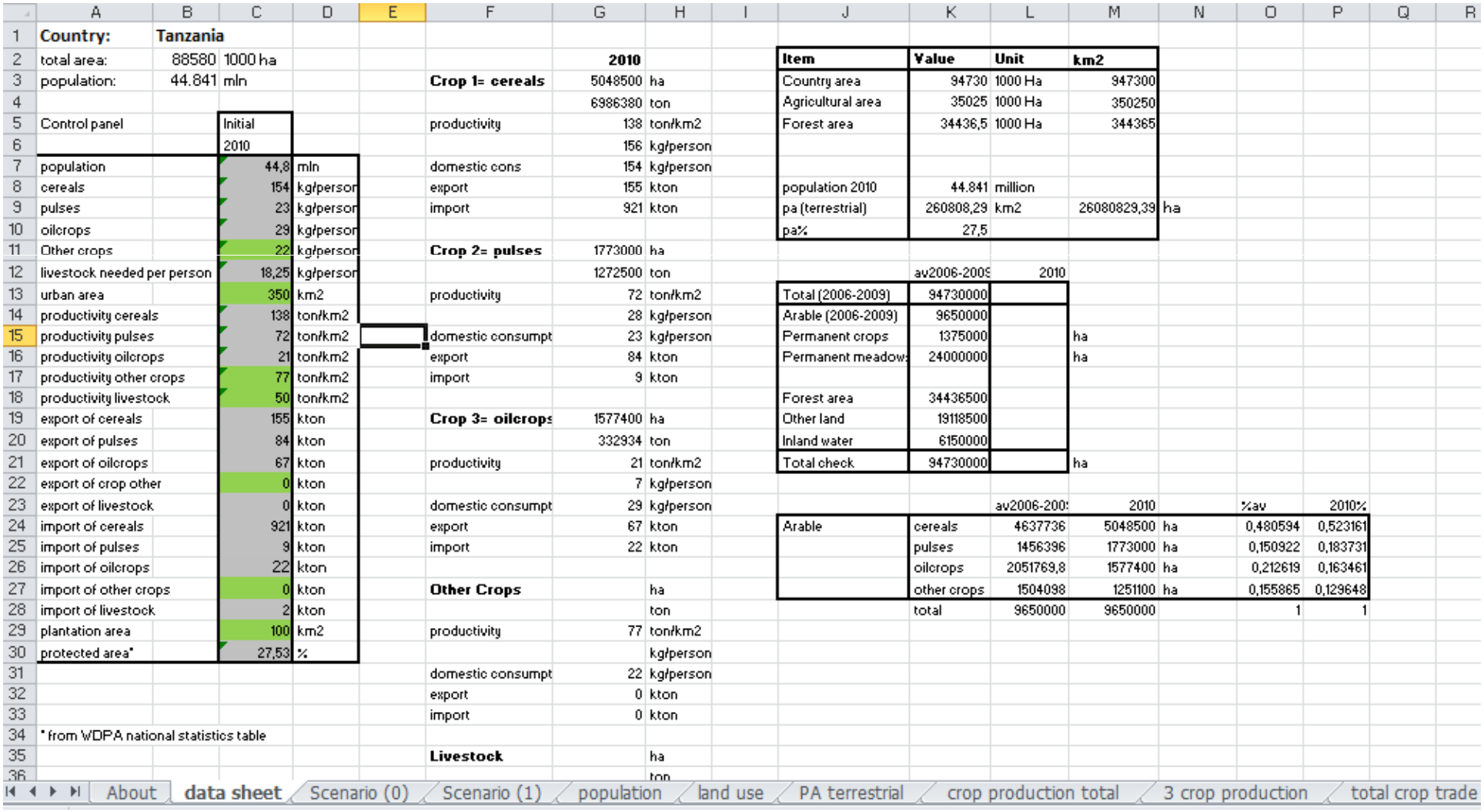
Species richness vs. naturalness



Well known biodiversity indicators



Information for scenario factors

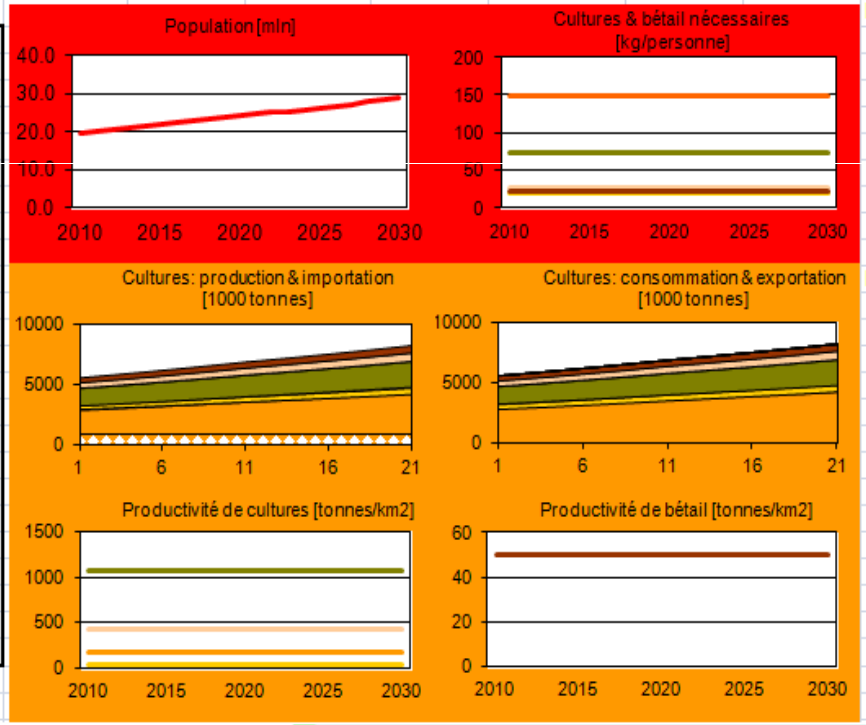


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	**Country:**	**Tanzania**																
2	total area:	88580	1000 ha				**2010**			**Item**	**Value**	**Unit**	**km2**					
3	population:	44.841	mln			**Crop 1= cereals**	5048500	ha		Country area	94730	1000 Ha	947300					
4							6986380	ton		Agricultural area	35025	1000 Ha	350250					
5	Control panel		Initial			productivity	138	ton/km2		Forest area	34436,5	1000 Ha	344365					
6			2010				156	kg/person										
7	population		44,8	mln		domestic cons	154	kg/person										
8	cereals		154	kg/person		export	155	kton		population 2010	44.841	million						
9	pulses		23	kg/person		import	921	kton		pa (terrestrial)	260808,29	km2	26080829,39	ha				
10	oilcrops		29	kg/person						pa%	27,5							
11	Other crops		22	kg/person		**Crop 2= pulses**	1773000	ha										
12	livestock needed per person		18,25	kg/person			1272500	ton			av2006-2009	2010						
13	urban area		350	km2		productivity	72	ton/km2		Total (2006-2009)	94730000							
14	productivity cereals		138	ton/km2			28	kg/person		Arable (2006-2009)	9650000							
15	productivity pulses		72	ton/km2		domestic consumpt	23	kg/person		Permanent crops	1375000		ha					
16	productivity oilcrops		21	ton/km2		export	84	kton		Permanent meadows	24000000		ha					
17	productivity other crops		77	ton/km2		import	9	kton										
18	productivity livestock		50	ton/km2						Forest area	34436500							
19	export of cereals		155	kton		**Crop 3= oilcrops**	1577400	ha		Other land	19118500							
20	export of pulses		84	kton			332934	ton		Inland water	6150000							
21	export of oilcrops		67	kton		productivity	21	ton/km2		Total check	94730000		ha					
22	export of crop other		0	kton			7	kg/person										
23	export of livestock		0	kton		domestic consumpt	29	kg/person				av2006-200	2010		%av	2010%		
24	import of cereals		921	kton		export	67	kton		Arable	cereals	4637736	5048500	ha	0,480594	0,523161		
25	import of pulses		9	kton		import	22	kton			pulses	1456396	1773000	ha	0,150922	0,183731		
26	import of oilcrops		22	kton							oilcrops	2051769,8	1577400	ha	0,212619	0,163461		
27	import of other crops		0	kton		**Other Crops**		ha			other crops	1504098	1251100	ha	0,155865	0,129648		
28	import of livestock		2	kton				ton			total	9650000	9650000		1	1		
29	plantation area		100	km2		productivity	77	ton/km2										
30	protected area*		27,53	%				kg/person										
31						domestic consumpt	22	kg/person										
32						export	0	kton										
33						import	0	kton										
34	* from WDPA national statistics table																	
35						**Livestock**		ha										
36								ton										

About | data sheet | Scenario (0) | Scenario (1) | population | land use | PA terrestrial | crop production total | 3 crop production | total crop trade

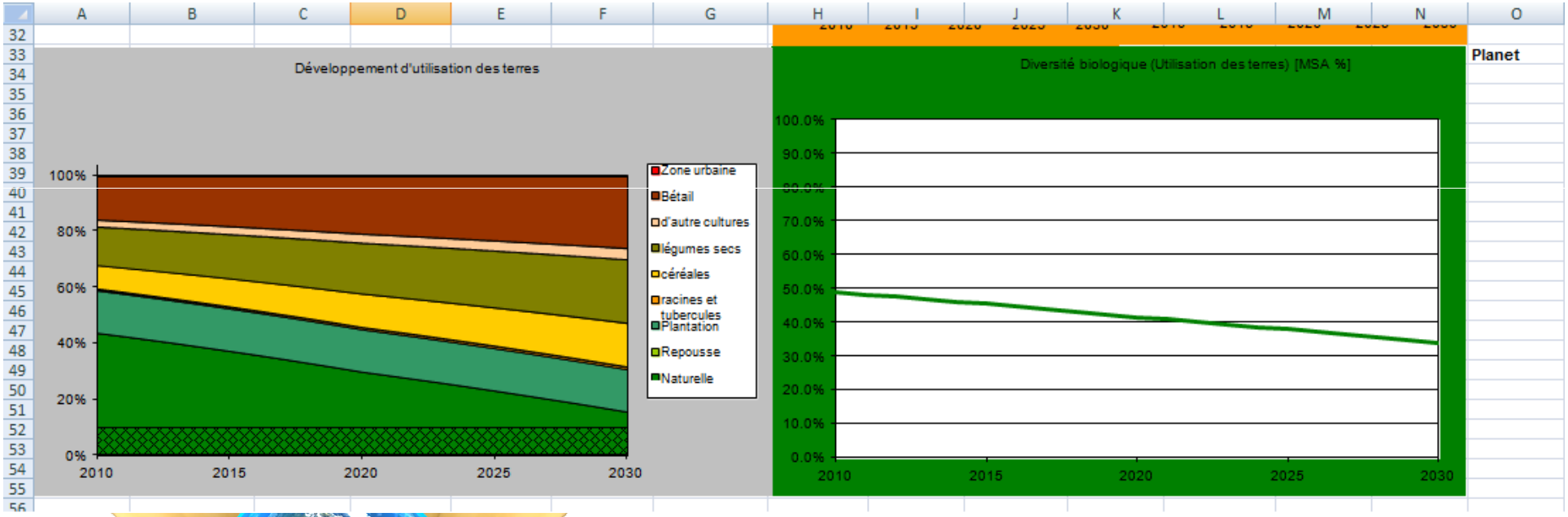
Input data and influence on people and profit

Scénario (0)		**Cameroun**					
	Surface totale	472710	km2				
Panneau de commande		Initiale 2010		Changement 2011-2020	2021-2030		
population		20	mln	2.1%	1.8%	par année	
céréales		148	kg/personne	0.0%	0.0%	par année	
oléagineux		20	kg/personne	0.0%	0.0%	par année	
racines et tubercules		73	kg/personne	0.0%	0.0%	par année	
d'autres cultures		25	kg/personne	0.0%	0.0%	par année	
bétail nécessaire par personr		21	kg/personne	0.0%	0.0%	par année	
zone urbaine		673	km2	0.0%	0.0%	par année	
productivité de céréales		171	tonnes/km2	0.0%	0.0%	par année	
productivité de oléagineux		50	tonnes/km2	0.0%	0.0%	par année	
productivité de racines et tube		1061	tonnes/km2	0.0%	0.0%	par année	
productivité d'autres cultures		427	tonnes/km2	0.0%	0.0%	par année	
productivité de bétail		50	tonnes/km2	0.0%	0.0%	par année	
exportation de céréales		5	kt	0.0%	0.0%	par année	
exportation de oléagineux		0	kt	0.0%	0.0%	par année	
exportation de racines et tube		0	kt	0.0%	0.0%	par année	
exportation d'autres cultures		0	kt	0.0%	0.0%	par année	
exportation de bétail		0	kt	0.0%	0.0%	par année	
importation de céréales		957	kt	0.0%	0.0%	par année	
importation de oléagineux		3	kt	0.0%	0.0%	par année	
importation de racines et tube		0	kt	0.0%	0.0%	par année	
importation d'autres cultures		0	kt	0.0%	0.0%	par année	
importation de bétail		2	kt	0.0%	0.0%	par année	
zone plantation forestière		1500	km2	0.0%	0.0%	par année	
zone protégée		9%	%	0.0%	0.0%	par année	



PBL and SCBD workshop: regional scenario analysis - Incheon City, South

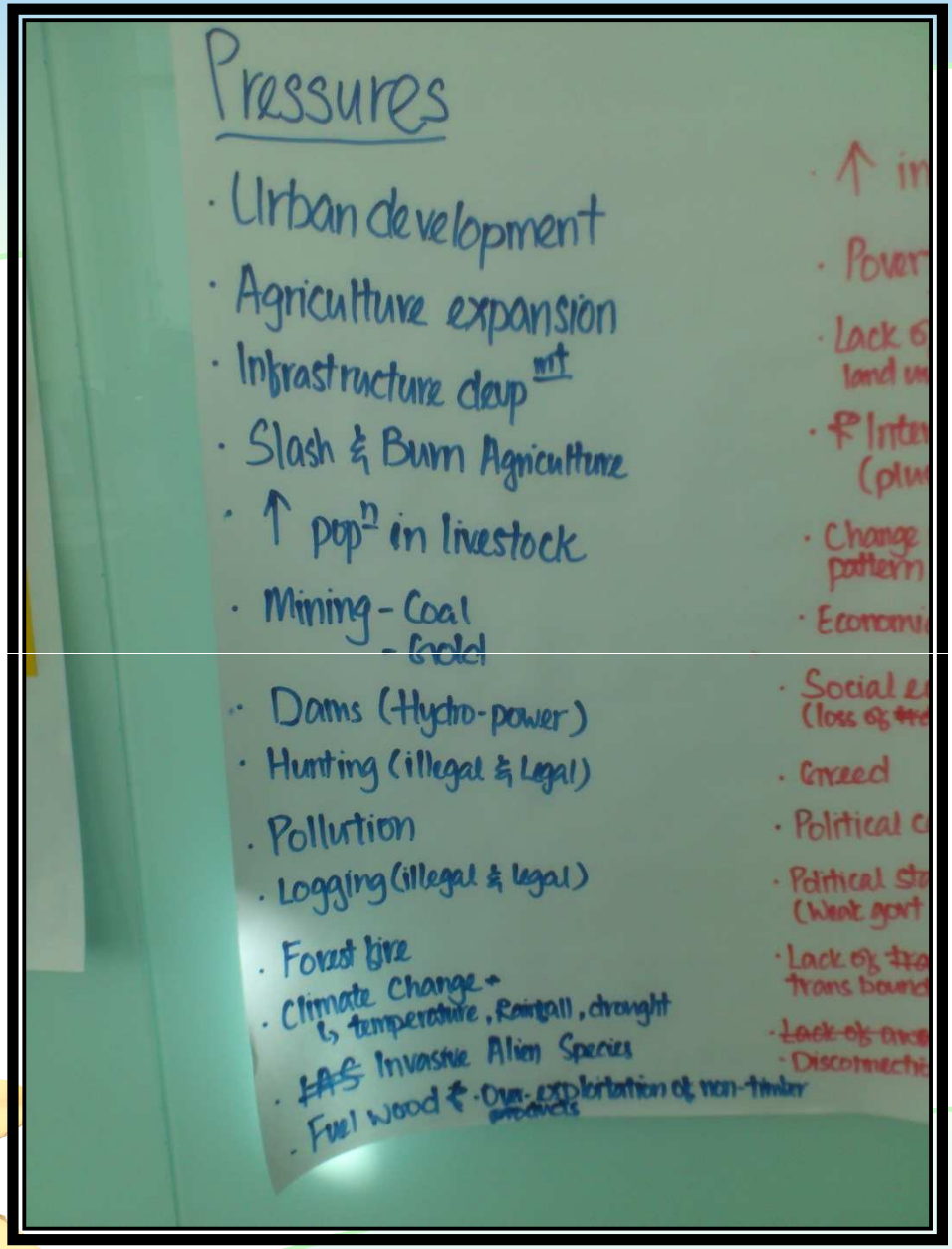
… and in pictures

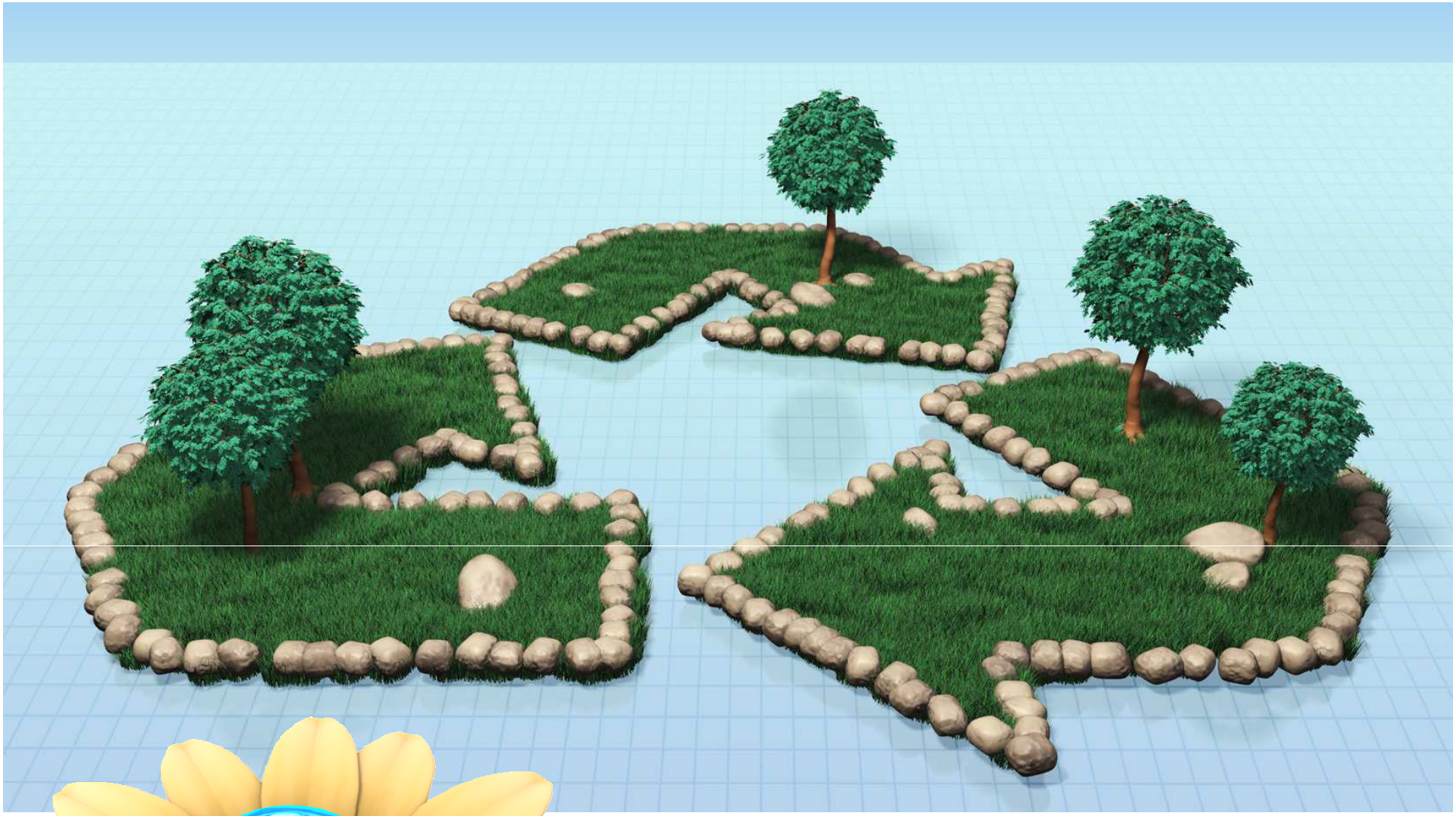


PBL and SCBD workshop: regional scenario analysis - Incheon City, South

Observations

- ✓ Mean Species Abundance (MSA) for an ecosystem(s): base year for the historical data and future projections (land use map/physical plan)
- ✓ Determine the right pressures and drivers to biodiversity loss is a prerequisite for developing good policy option(s).
- ✓ With limited primary data collection/direct measurement, models could be a good substitute in the process of formulating policy options.


Pressures
· Urban development
· Agriculture expansion
· Infrastructure dev^mt
· Slash & Burn Agriculture
· ↑ pop^n in livestock
· Mining - Coal
- Gold
· Dams (Hydro-power)
· Hunting (illegal & Legal)
· Pollution
· Logging (illegal & legal)
· Forest fire
· Climate Change → temperature, Rainfall, drought
· Invasive Alien Species
· Fuel wood & · Over-exploitation of non-timber products
· ↑ in
· Power
· Lack of land
· Inter (plu
· Change pattern
· Economi
· Social (loss of
· Greed
· Political
· Political st (Weak govt
· Lack of trans bound
· Lack of
· Disconnecti



THANK YOU