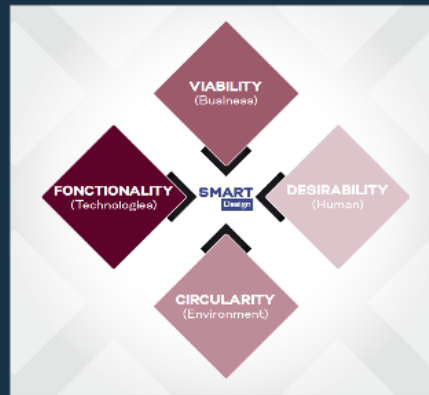


# Smart Design

*through* an integrated  
and integral approach



# Smart Design

An integrated  
and integral approach

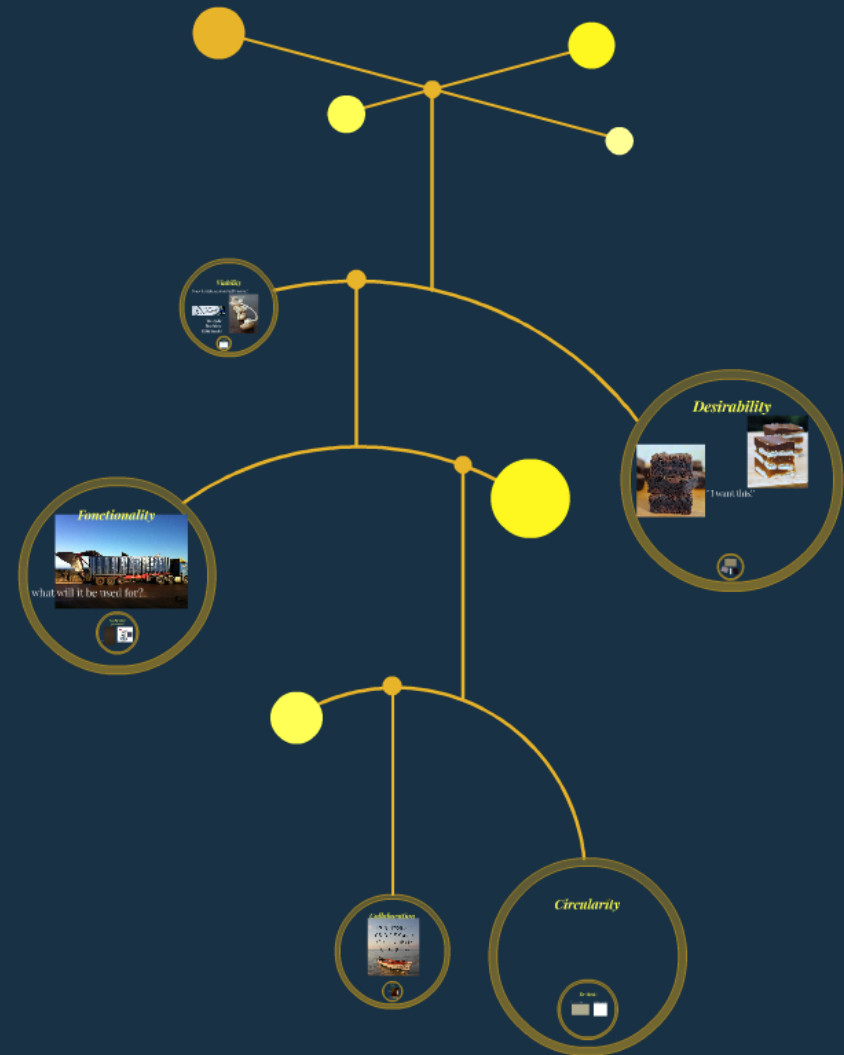
Dr Jeannot Schroeder  
PROgroup



# Smart Design

An integrated  
and integral approach

Dr Jeannot Schroeder  
PROgroup



Smart design:

1. stable: capable de vivre, de se développer, en de générer à des conditions favorables
2. désirabilité: ce qui vaut la peine de posséder, ce qui est utile, attractif, plaisant, ce qui donne envie
3. fonctionnel: répondant à une fonction précise, et précisant à cette fonction, répondant à un besoin précis
4. circulaire: cyclable

# *Viability*

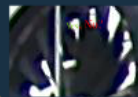
Does it make economically sense?



life cycle  
flexibility  
futur needs



Get the numbers  
right !



# *Get the numbers right !*



small size turbines:

Yes, No?



A photograph of a modern building with a grey facade and a large section of its exterior wall covered in green plants. Three small, black, wind turbine-like devices are mounted on tall poles on the roof. The sky is overcast.

small size turbines:

Yes, No?

# *Desirability*



"I want this!"





*Be Creative!*



# *Functionality*



what will it be used for?

*Ask the right  
questions!*



# *Ask the right questions!*

small steps !



small steps !











# *Circularity*

12-19-20

## *Re-think!*

Where we are today...



and where we need to get



It doesn't matter how many resources you have.

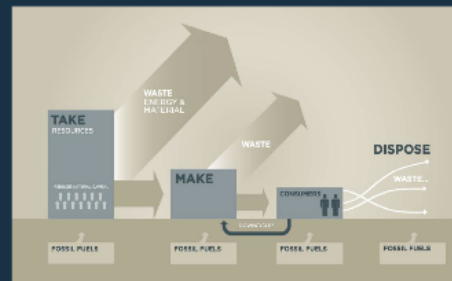


If you don't know how to use them,  
it will never be enough.

25-30%

# *Re-think!*

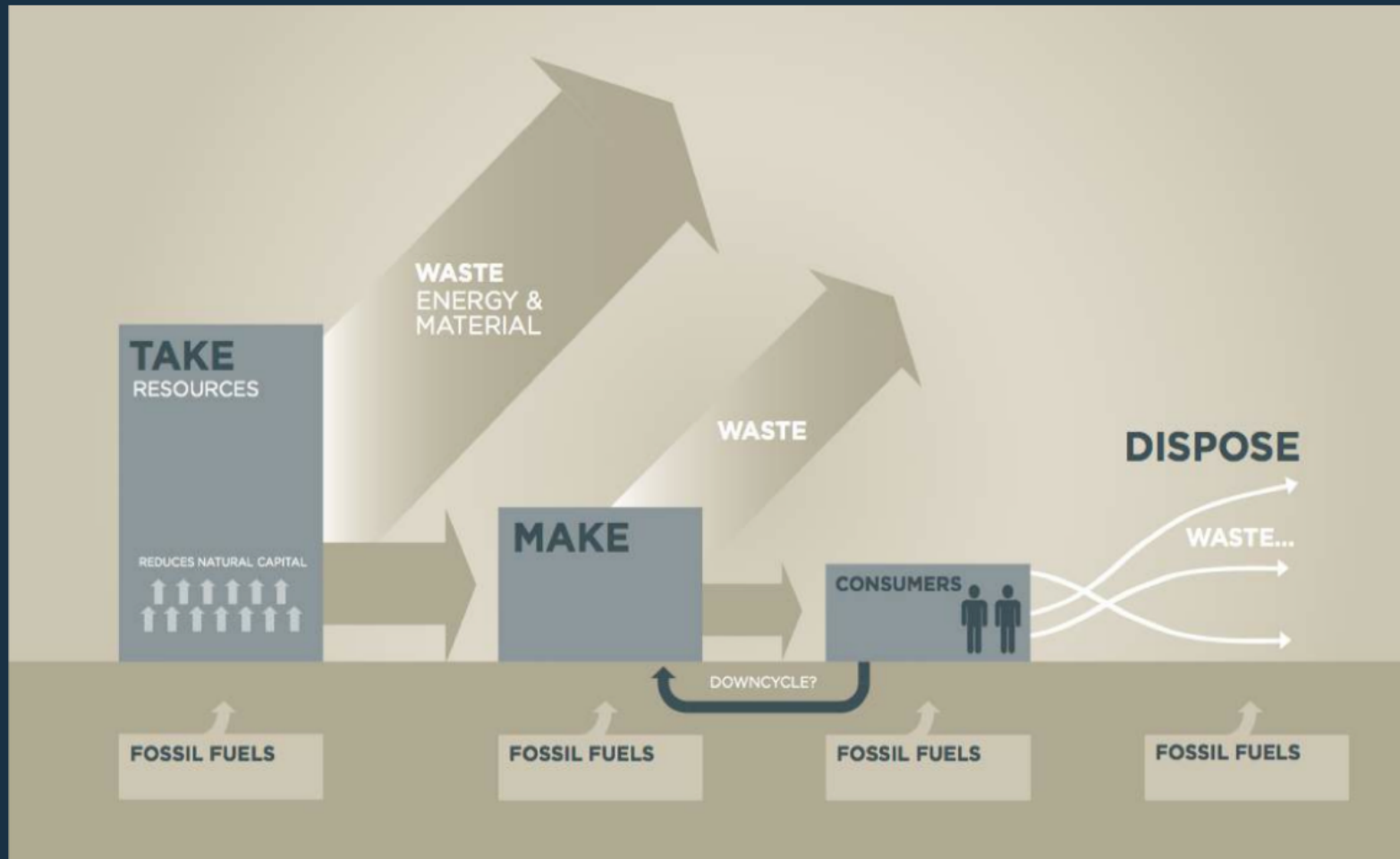
Where we are today...



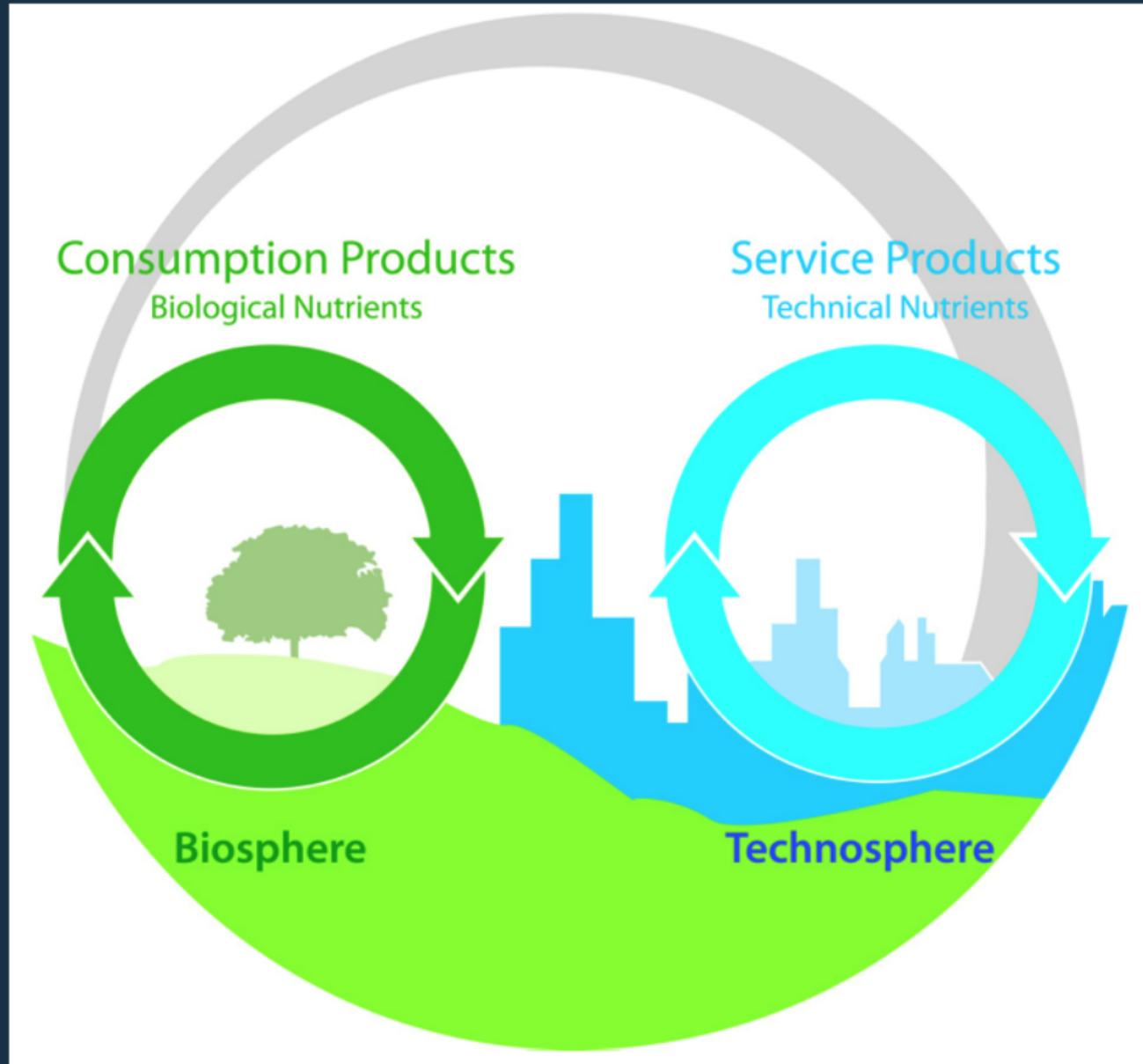
and where we need to go!



# Where we are today...



# and where we need to go!





# *Collaboration*

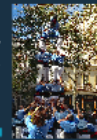
MAKE SURE EVERYBODY IN  
YOUR BOAT IS ROWING AND  
NOT DRILLING HOLES WHEN  
YOU'RE NOT LOOKING.

*unknown*



*Organize  
your team !*

Last Planner  
System



# *Organize your Team !*

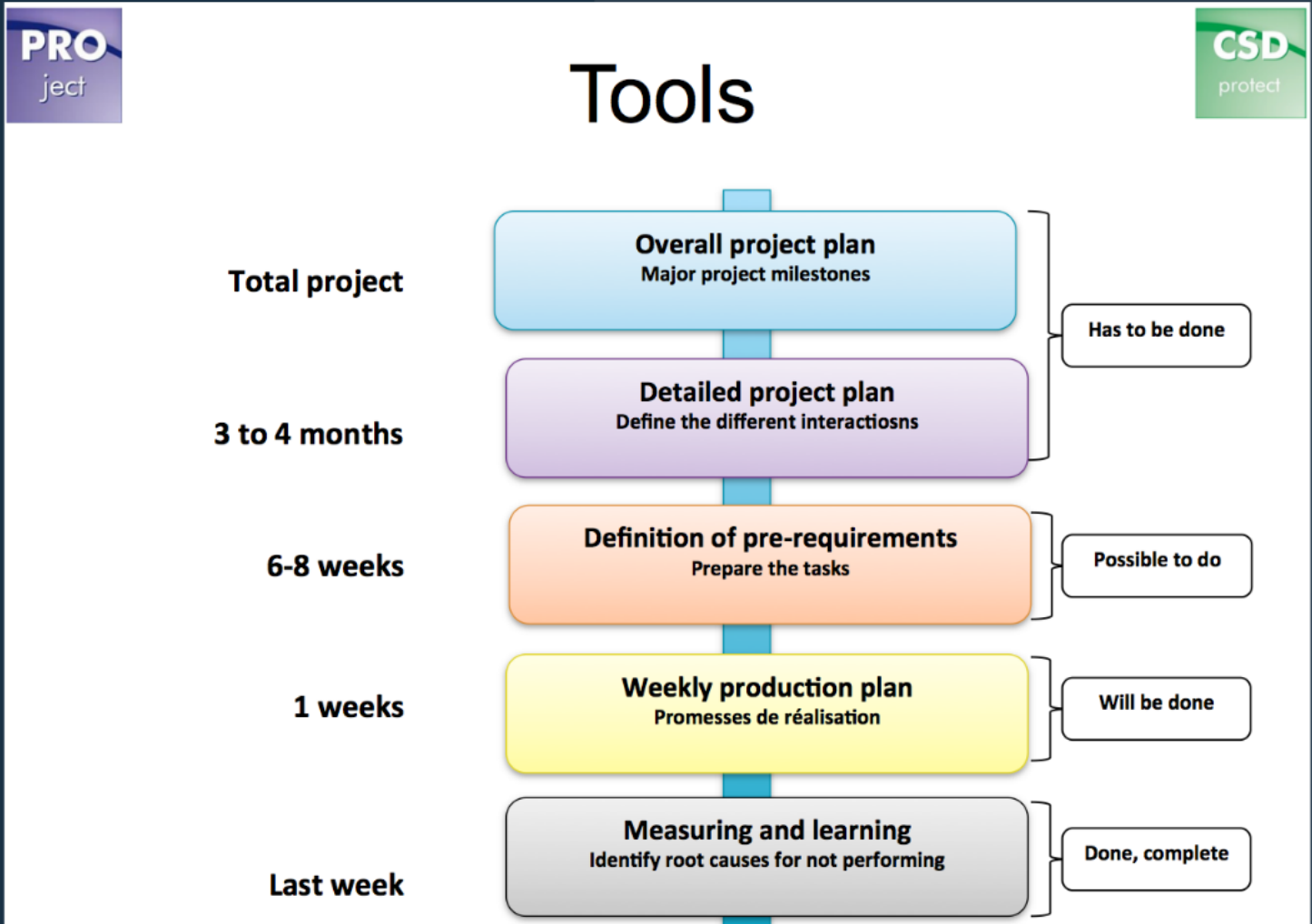
Last Planer  
System



Castell

Pos	Nombre	Altura	Profundidad
1	1	1.50m	1.50m
2	2	1.50m	1.50m
3	3	1.50m	1.50m
4	4	1.50m	1.50m
5	5	1.50m	1.50m
6	6	1.50m	1.50m
7	7	1.50m	1.50m
8	8	1.50m	1.50m
9	9	1.50m	1.50m
10	10	1.50m	1.50m
11	11	1.50m	1.50m
12	12	1.50m	1.50m
13	13	1.50m	1.50m
14	14	1.50m	1.50m
15	15	1.50m	1.50m
16	16	1.50m	1.50m
17	17	1.50m	1.50m
18	18	1.50m	1.50m
19	19	1.50m	1.50m
20	20	1.50m	1.50m
21	21	1.50m	1.50m
22	22	1.50m	1.50m
23	23	1.50m	1.50m
24	24	1.50m	1.50m
25	25	1.50m	1.50m
26	26	1.50m	1.50m
27	27	1.50m	1.50m
28	28	1.50m	1.50m
29	29	1.50m	1.50m
30	30	1.50m	1.50m
31	31	1.50m	1.50m
32	32	1.50m	1.50m
33	33	1.50m	1.50m
34	34	1.50m	1.50m
35	35	1.50m	1.50m
36	36	1.50m	1.50m
37	37	1.50m	1.50m
38	38	1.50m	1.50m
39	39	1.50m	1.50m
40	40	1.50m	1.50m
41	41	1.50m	1.50m
42	42	1.50m	1.50m
43	43	1.50m	1.50m
44	44	1.50m	1.50m
45	45	1.50m	1.50m
46	46	1.50m	1.50m
47	47	1.50m	1.50m
48	48	1.50m	1.50m
49	49	1.50m	1.50m
50	50	1.50m	1.50m
51	51	1.50m	1.50m
52	52	1.50m	1.50m
53	53	1.50m	1.50m
54	54	1.50m	1.50m
55	55	1.50m	1.50m
56	56	1.50m	1.50m
57	57	1.50m	1.50m
58	58	1.50m	1.50m
59	59	1.50m	1.50m
60	60	1.50m	1.50m
61	61	1.50m	1.50m
62	62	1.50m	1.50m
63	63	1.50m	1.50m
64	64	1.50m	1.50m
65	65	1.50m	1.50m
66	66	1.50m	1.50m
67	67	1.50m	1.50m
68	68	1.50m	1.50m
69	69	1.50m	1.50m
70	70	1.50m	1.50m
71	71	1.50m	1.50m
72	72	1.50m	1.50m
73	73	1.50m	1.50m
74	74	1.50m	1.50m
75	75	1.50m	1.50m
76	76	1.50m	1.50m
77	77	1.50m	1.50m
78	78	1.50m	1.50m
79	79	1.50m	1.50m
80	80	1.50m	1.50m
81	81	1.50m	1.50m
82	82	1.50m	1.50m
83	83	1.50m	1.50m
84	84	1.50m	1.50m
85	85	1.50m	1.50m
86	86	1.50m	1.50m
87	87	1.50m	1.50m
88	88	1.50m	1.50m
89	89	1.50m	1.50m
90	90	1.50m	1.50m
91	91	1.50m	1.50m
92	92	1.50m	1.50m
93	93	1.50m	1.50m
94	94	1.50m	1.50m
95	95	1.50m	1.50m
96	96	1.50m	1.50m
97	97	1.50m	1.50m
98	98	1.50m	1.50m
99	99	1.50m	1.50m
100	100	1.50m	1.50m

# Planning



# Smart Design

*through* an integrated  
and integral approach

