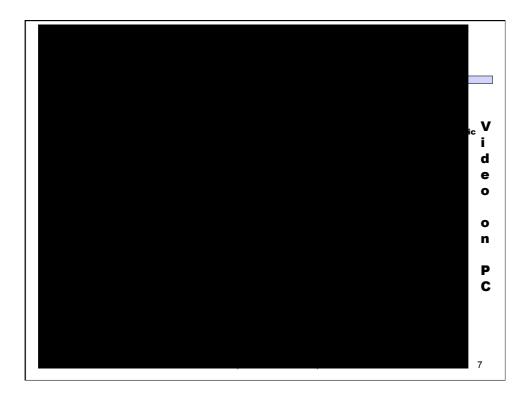
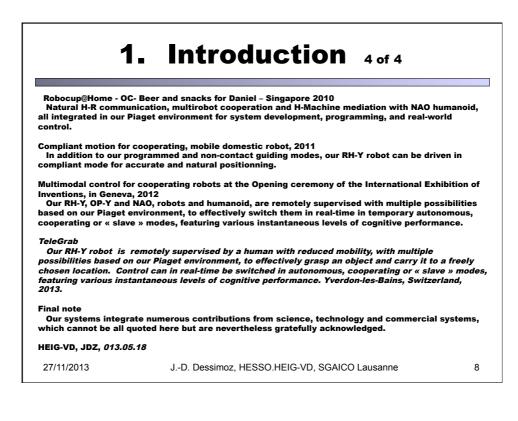
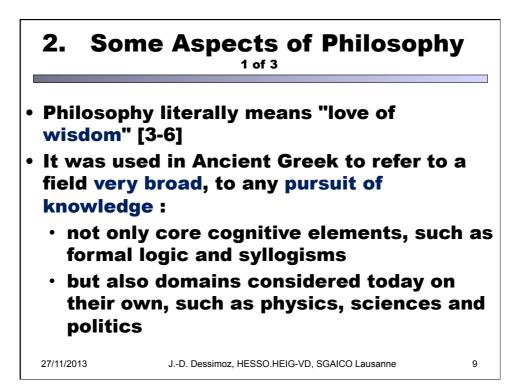


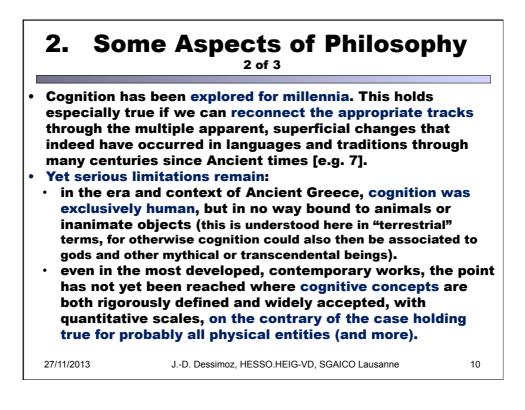
State of the art – re. VIDEO at IJCAI 2013 – Beijing, China [2] Titre: HEIG-VD Group of Cooperating Robots for Assistance at Home (RG-Y, RH-Y, OP-Y,), with cognitic capabilities ensured by our Piaget environment (2007-2013) Includes sequences taken while participating in world.level competitions.				
	ycat – Atlanta 2007 Iotions and tasks just by showing, by doin Follow – Suzhou 2008	gitin HEIG Robots	A Group of Cooperating s for Assistance at Home Y, RH-Y, OP-Y,), with	
	pone just by naturally walking in front of i	t 🖉 cògniti	c capabilities ensured by r Piaget environment	
Robocup@Home - Walk Teaching new topolo specific name to key l	ogies and paths at home by guiding the ro		م ای دو <mark>ر مکار کار استور استور می</mark> د ا	
Robocup@Home - OC- Ordering motions by	Robot based gesture control, and crab ga control gestures form a distance ; includ rm with 4 wheels and independant susper	it - Graz 200 es our RH-Y	heig-vd have been and our	



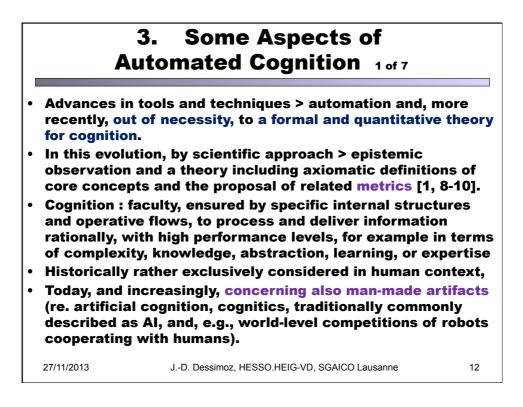


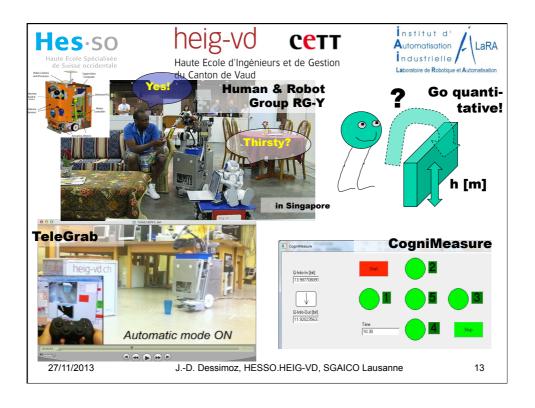
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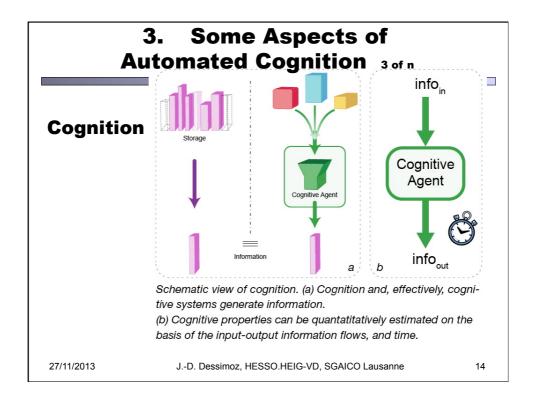




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3. Some Aspects of Automated Cognition 4 of n

MCS Theory of Cognition

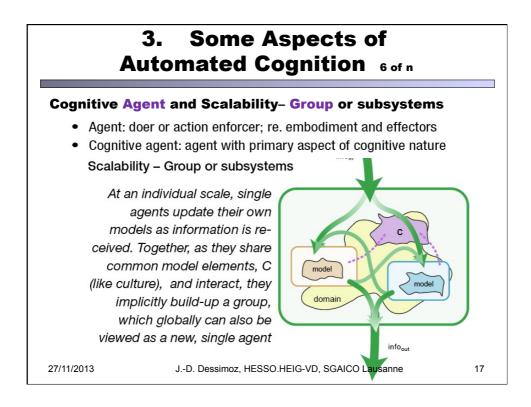
	•
entity	brief description
Model	Goal oriented, elementary representation
Information	Builds-up receiver's opinion
Complexity	Amount of information required for description
Knowledge	Capability to crank out the right information
Expertise	Capability to crank fast the right information
Learning	Increasing the quantity of expertise
Experience	Amount of information witnessed
Intelligence	Ratio of learning versus experience
	n of cognitive concepts defined elsewhere in pecific measuring equations and units.
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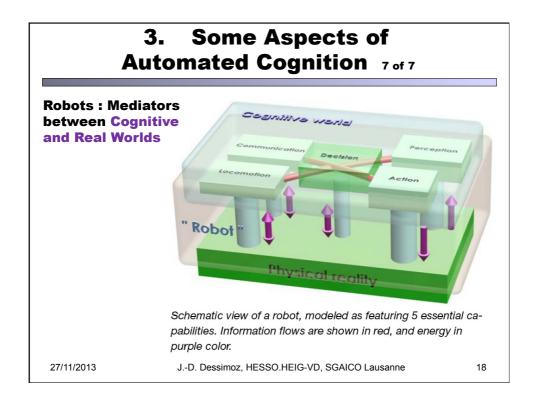
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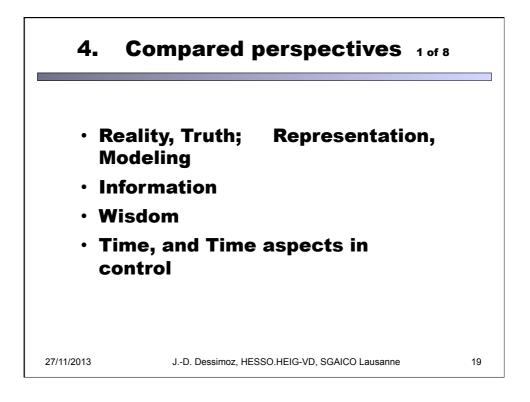
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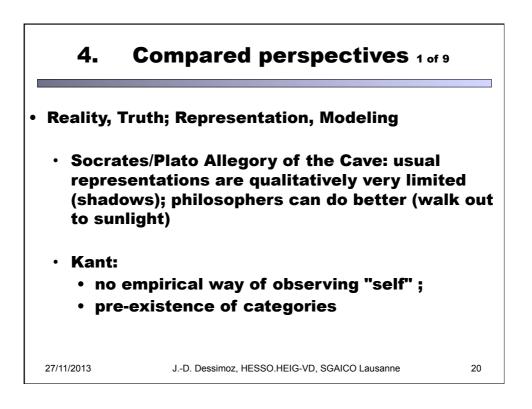
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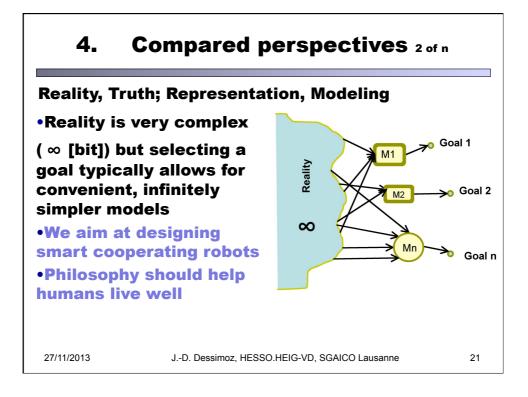
	Information:	$n = \sum n \log (1/n) [hit]$
MCS Theory of	Knowledge:	$K = \log_2(n_{out} 2^{nin} + 1) [lin]$
Cognition	Fluency:	$F = 1/\Delta t [s^{-1}]$
	Expertise:	E = K·F [lin/s]
	Learning:	$\Delta E = E(t_1) - E(t_0); >0 [lin/s]$
	Experience:	$R = r(n_{in} + n_{out})$ [bit]
	Intelligence:	I = ΔE/ΔR [lin/s/bit]
	relative Agility:	Ar = τ/T
	T: Fluency 1 and com τ : Reaction time of	munication delays target system, to be controlled

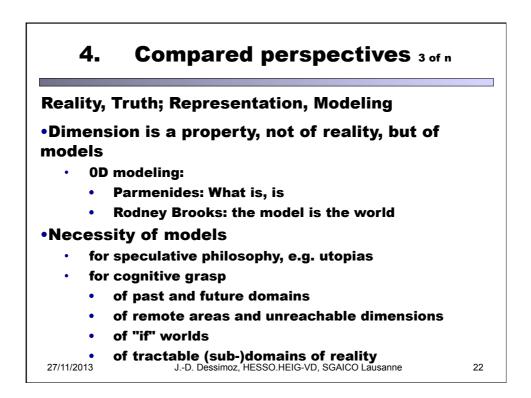


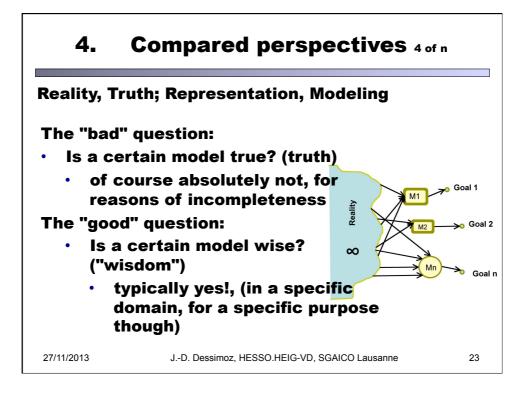


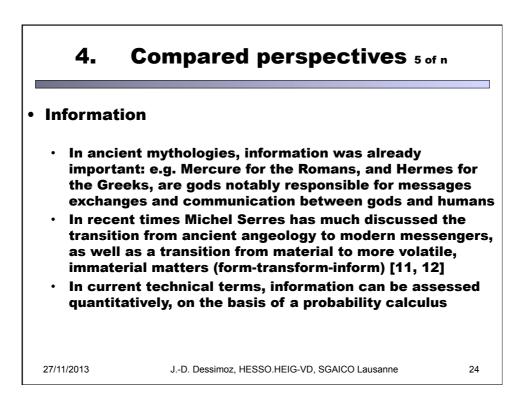


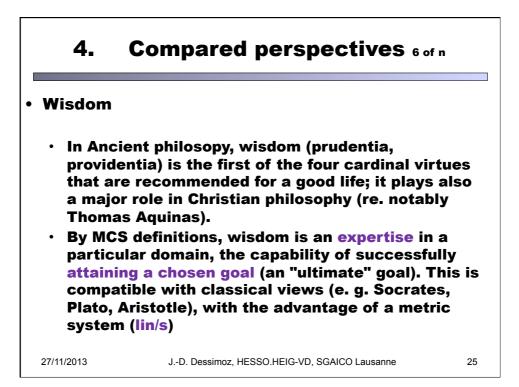


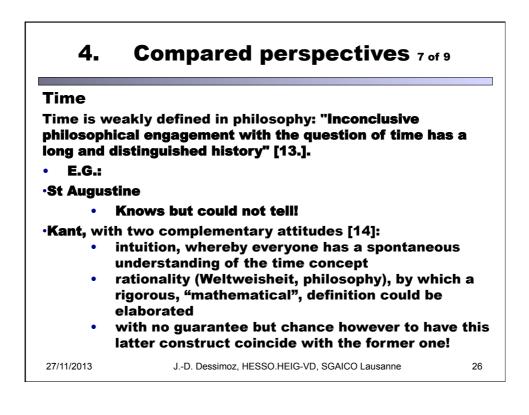












4. Compared perspectives 7b of 9

Time

•Levinas: Time consists in two axes:

- (1) the flowing synthesis of now moments, Husserl's structure of transcendental consciousness (a constructivist view, with precognitive and pre-intentional layers only);
- (2) and a peculiar kind of interruption that Levinas will call the event of transcendence, and to which he relates to as "infinity"[15] (typically the experience of meeting someone else *)

•Even in our contemporary time where philosophy and science have both well developed, Rosenberg apologizes for simply defining time as follows: "time is duration" and "duration is the passage of time" [16].

* This might be understood as the major importance of contributing to a group, so ultimately a whole, or in a sense, god. 27/11/2013 J.-D. Dessimoz, HESSO.HEIG-VD, SGAICO Lausanne 27

