Hi!					
Welcome to the I	iving document of	the research age	nda of our Institut	e!	
Thank you for yo	ur contributions!				
Feel free to:					
	- add anything you find interesting to the table 'Suggestions'				
	- check out our first take at the questions in the 'List' table				

		You can add your questions below. Since the set-up is still in an early stage feel free to join the Telegram Cha	nnel of the me	eetup if you want to get live upda	tes from the pro	ogress.
		https://t.me/joinchat/l1gMghGx1uXECCMhnB_faQ				
#	Торіс	Question	Name	Email		
1		How do I avoid token volatility becoming the biggest objection to using a token network?	Tom Klein	tkklein@businessblock.co		
2		When should I use an existing token vs creating my own?	Tom Klein	tkklein@businessblock.co		
3		What variables are responsible for making a token design antifragile (i.e benefiting from stressors / volatility)?	Laurent Hardy	cryptoeconomics.hub@gmail.com		
4		What classifiers might help identifying the best information a token should capture and carry in order to justify its existence?	Laurent Hardy	cryptoeconomics.hub@gmail.com		
5		How to account for non-financial incentives?	Laurent Hardy	cryptoeconomics.hub@gmail.com		

Token Ecor	nomics	for decentralizes autonomous systems that are steered b	y token governenance rules - These research questions aim to i DAOs its agents, their behavior and token governance rules	dentify existing scientific me	thods that can be	used to model	and evaluate
Topic	Number	Question	Background, Context and Methods	Scientific Fields	Relevant People	Methods	Notes
	1	Which general structure captures the dynamics of an agent-based ecosystem best?	It is necessary to define a formalistic framework to set up a modeling space for ecosystems. It will constist of the generating properties of the network and also include agent-spaces, strategy spaces, utility and preference functions. Maybe measure theory is appropriate?				
General Structure of Model and its parameters	2	Now to formatize properties and functionalities of a network token in order to understand its behaviour?	Ablockhain loten can be used to MII sevent tasks and has to include different functionalities. Unitergater morely it can be used for much more than only unit of account, medium of exchange and solice of value. It can also site behaviour lowards a socially information asymeteties. Sevent and the solicities and the solicities the goals and up at canadisc mathematical framework to capture all the dynamics of the case.	aligned interests		intuitive beschreibung	
	3	Which existing models can we use?	Ramsey, Solow, DSGE?			intuitive beschildburg	
Agents	4	How to model agents behaviour within an ecosystem?	Agents will base their decision also on anticipated behaviour of their counterparts. This				
	5	How to model the interactions between agents?	expectations need to be ractored in. Game theory is suitable to model this kind of trade-ons Interactions of agents call for a formal approach to allow for modeling them. Their decisions will be based on the information they can use, their preferences and their goal of action.				4
	6	Which types of agents participate in a network?	A classification of participants is required in order to understand their possible behaviour better. It is necessary to define sets of possible actions and outcomes				how do these agent
	7	Which underlying microeconomic functions can be used to model agents' behaviour?	Microeconomic fundamentals as indifferences, utilities, elasticies,have to be considered. Which else? Can the whole theory of microeconomics and its tools can be applied to ecosystem thinking?				
	8	Which macroeconomic functions can be used to describe the network?	Macroeconomic fundamentals as GDP (=total outcome), Government spending, consumption and investment, trade need to be considered. Which else? Is an ecosystem comparable to a country?				
	9	How to include indifference functions?	For some agents preferences are not so intuitevy to understand. Is it possible to capture the mechanics and simplify them into some variables? Are agents distinguishable and do we need very specific knowledge about their possible actions or is there a more general approach?				> behavioral econ
	10	How to include impatience?	Intertemproal substitution of utility allows for modeling of different time-preferences. Discount factors and total-lifetime-utility can be used to maximize agents' behaviour				
	11	How to categorize goods within a network?	Economic classifications of goods need to be modeled into the approach, see link	https://en.wikipedia.org/wiki/Goods			> new classificatio
	12	How to account for externalities?	The Token (as in 1) has several functions and can capture taxation and subsidy elements. These effects can be priced in and affect agent's behaviour				
	13	How to measure utility?	Rational-behaving agents usually tend to maximize their own utility without much concern for others' benefits. Therefore a network utility function can be set up to globally adress this issue. How?				
	14	Which taxation mechanism is appropriate?	Different tax-theoretical approaches have been used to account for unwanted effects within an economy. Collect all, compare their characteristics and choose the best	> google: environmental tax model	https://en.wikipedia.org/wi		
	15	How to include voting behaviour?	Since the centralised overseeing government ideally is to be replaced by an intrinsic function within the network, it is obligatory to include deomographic binding voting mechanisms. Is auction theory appropriate?				
	16	How to include expectations?	Agents base their economic decisions on their expectations about the future. These incertainities might be modeled by probability distributions				
	17	How to analyze network tendencies and steady states?	differential equations and operations research are suitable to understand global network tendencies. They can help to model different potential outcomes and steady states				
	18	How to change / allow for change of network settings / parameters?	a decentralized ecosystem once parametrized is very diffucult to adapt, since it requires the agreement of all participating parties. How to solve this issue?				
		How to map governance mechanisms	is governance a function of the token or a function of the network? is in internally implemented in the utilities of the agents or is it an external factor counted in afterwards				
	19		Chan that anonte will behave rationally and utility maying time they need to be beentiusd				
	19a	How to map incentive mechanisms?	somehow to make steering of behaviour possible				
	20	How to map consensus?	Is consensus to be mapped after all or is it simply an agreement made between individuals given that they will behave self-maximizing?				
	21	How to capture the value of a network?	How valuable is a network and to whom? Is it comparable within different agent-types or has everyone his own perspective? Is it possible to assign a social-utility to a network at all?				
	22	How to control growth of a network / network value?	From a dynamic-macroeconomic perspective, is it possible to steer the growth of a network? Which underlying parameters are to be used to do so?				
	23	Are agents distingiushable?	Is there a general class of agents with different properties or are there different classes of agents? how abstract can an agent be defined?				
	24	Which kind of agents are relevant at which moment?	Some stakeholders will play different roles for network evolution. The time-dimension of their involvement needs to be taken account of				
	25	How important are different types of agents with regard to growth?	2-dimensional impact of agents on the network: they contribute to growth and also to the increase of value				
	26	What is the contribution of different agents to network growth?					
	27	Which distribution of agents is beneficial?	predataor-prey perspective: agents interact and should not outnumber others in order to guarantee sustainable systems				
	28	How to set the correct proportions of different agents?					
	28	Which random components / shocks are to be included?	Every network is subject to unexpected changes. Probability distributions can be used to factor these in, however the impacts are often not so easy to model				
	29	Wie funktioniert geldschöpfung?	Wie verbintet men Wartechönfinn mit Caldechönfinn? Wann Wart antecht - > onleicht ouch o	Malche Theorien setzen sich mit Coldook	ofung und Wertschönfung		
		wo findet die wertschopfung statt?	wwe veroimet man wentschoprung mit Geloschöpfung? Wenn Wert entsteht> entsteht auch e	Der Wert der Sicherheit der Transaktione	n> Bitcoins Wertschöpfung	19	
	31	Token (System) Valuation					
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