



Measuring the impact and progress of SDG's

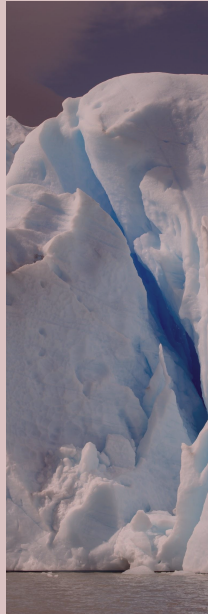
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Advisory Board member of International Council on System engineering/ INCOSE/



Problems

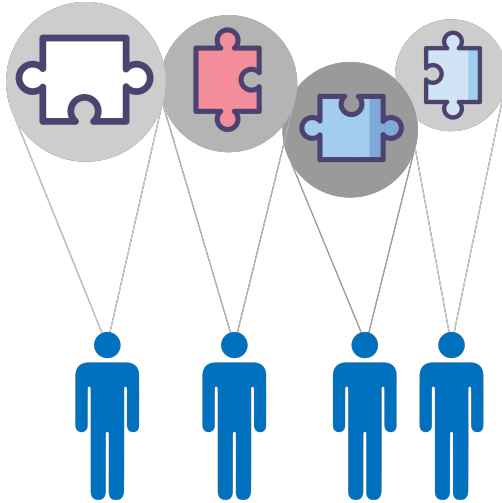
Poverty
Unqualified education
Clean water ...



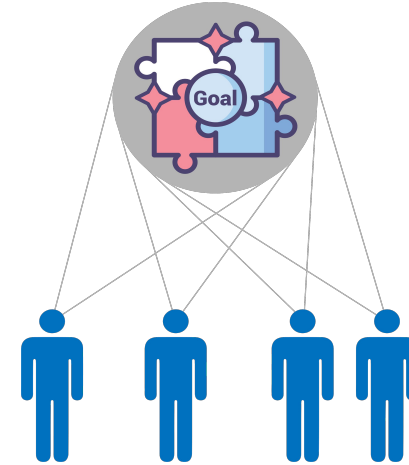
Measuring



Understanding

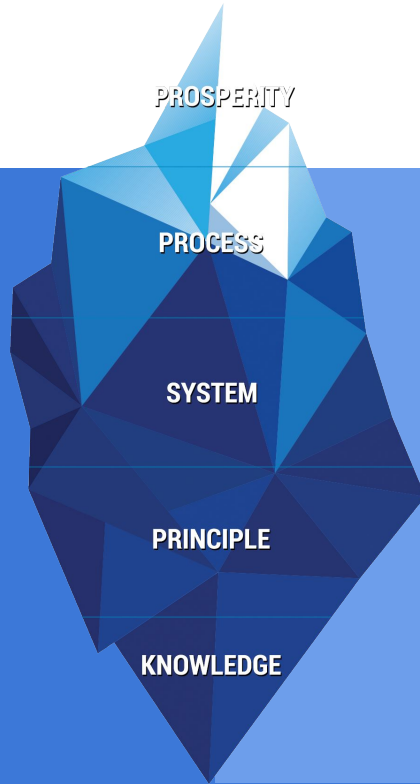


Unaligned, fragmented solutions



Holistic and aligned solutions for
overcoming challenges and realizing
goal

Root cause of prosperity



Root cause of problems

Problem /Symptom/

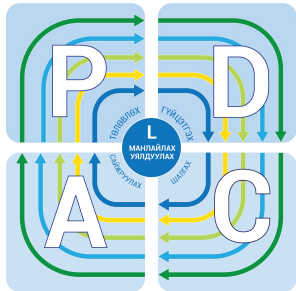
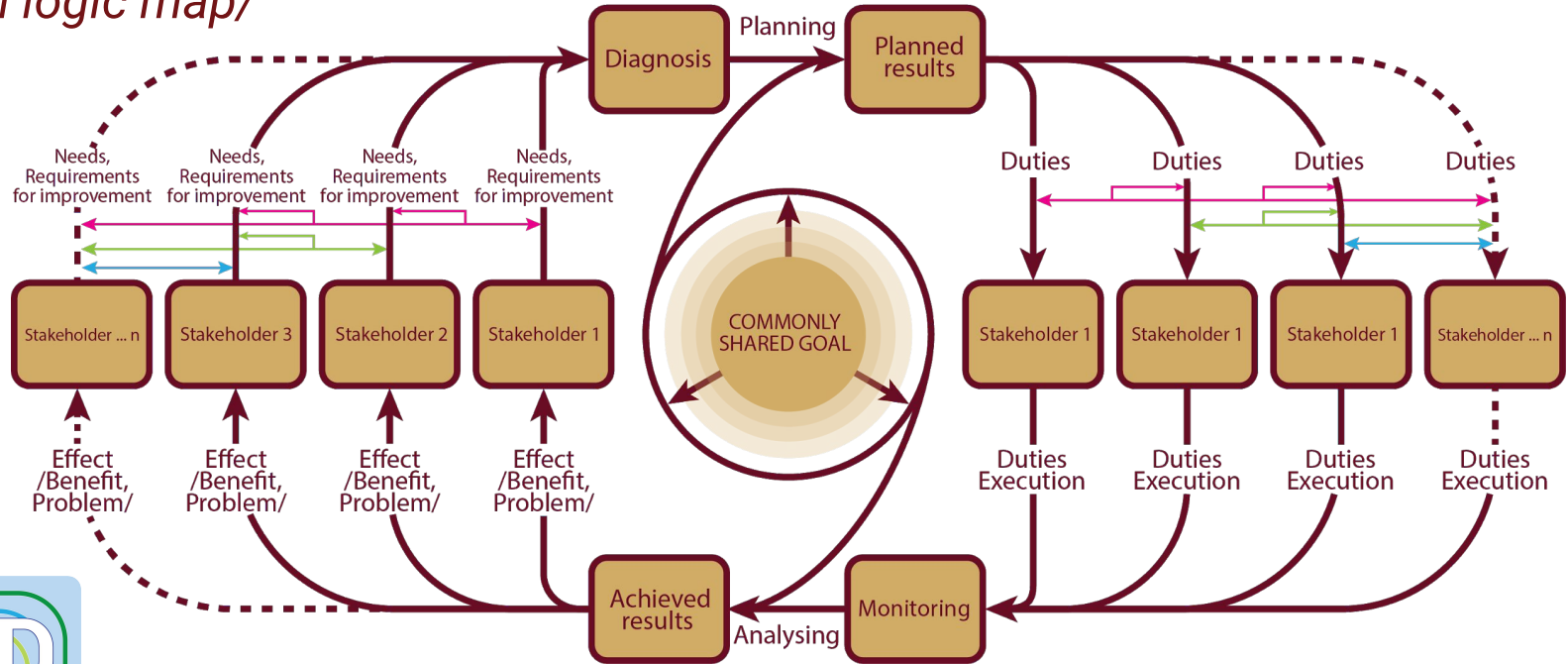
System deficiencies

Goal with no-criteria

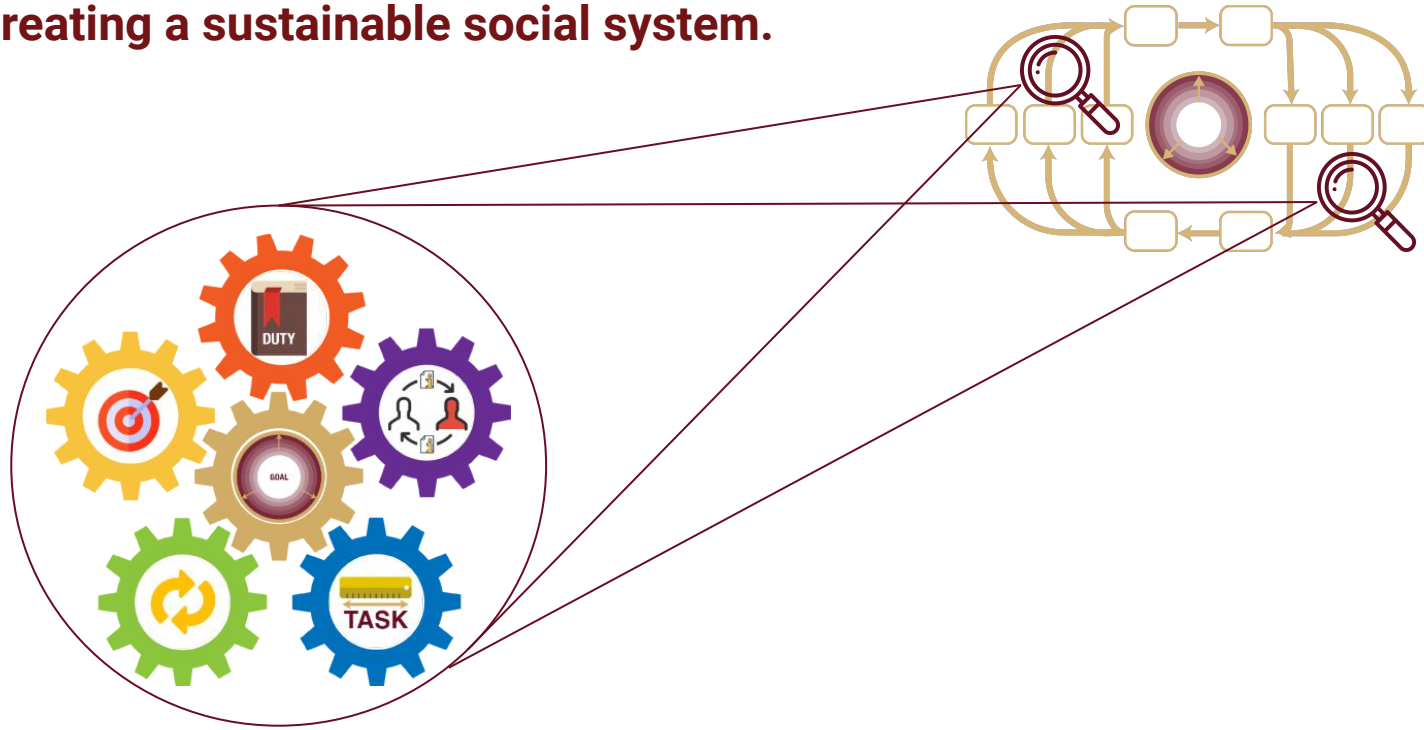
Poor understanding of human
fundamental needs

Strategy system model - SSM

/System logic map/

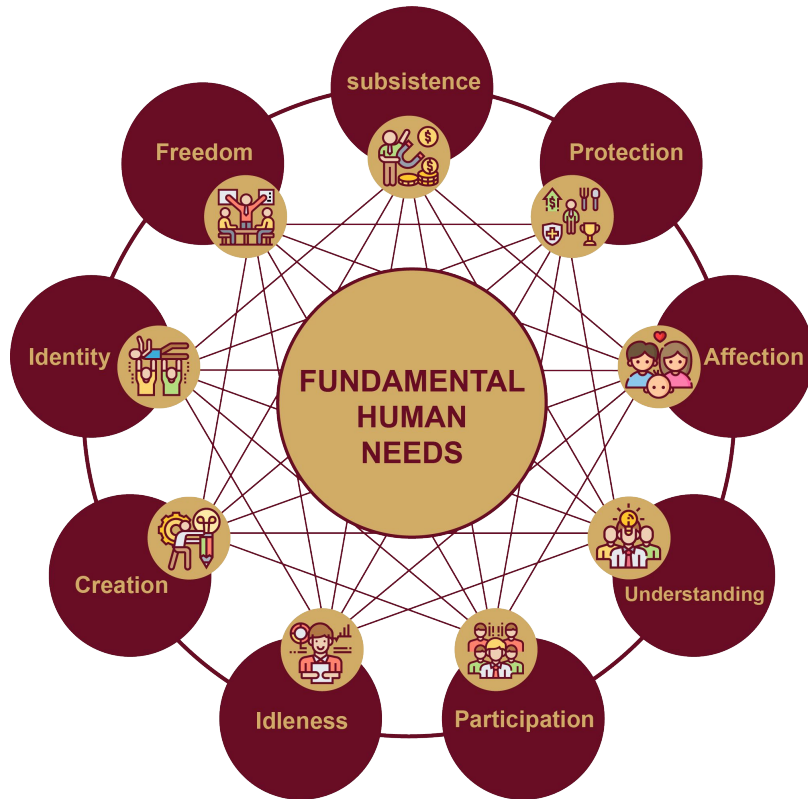


“Goal enforcement mandatory integrated axioms” /GEMIA5/ is a concept which can serve as the fundamental and imperative foundation for creating a sustainable social system.



Cross Section of Interrelation

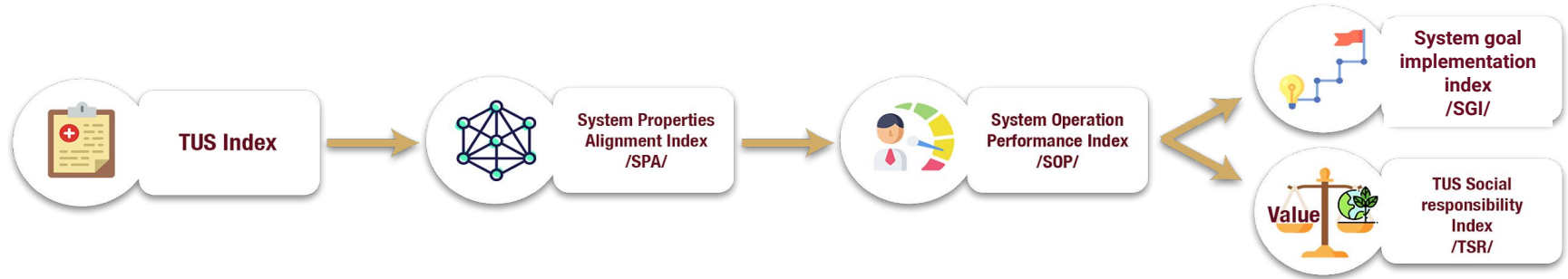
Fundamental human needs by Max-Neef



Axiological needs	Existential needs			
	Being	Having	Doing	Interacting
Subsistence	physical health, mental health, equilibrium, sense of humour, adaptability	food, shelter, work	feed, procreate, rest, work	living environment, social setting
Protection	care, adaptability, autonomy, equilibrium, solidarity	insurance systems, savings, social security, health systems, rights, family, work	cooperate, prevent, plan, take care of, cure, help	living space, social environment, dwelling
Affection	self-esteem, solidarity, respect, tolerance, generosity, receptiveness, passion, determination, sensuality, sense of humour	friendships, family, partnerships, relationships with nature	make love, caress, express emotions, share, take care of, cultivate, appreciate	privacy, intimacy, home, space of togetherness
Understanding	critical conscience, receptiveness, curiosity, astonishment, discipline, intuition, rationality	literature, teachers, method, educational policies, communication policies	investigate, study, experiment, educate, analyze, meditate	settings of formative interaction, schools, universities, academies, groups, communities, family
Participation	adaptability, receptiveness, solidarity, willingness, determination, dedication, respect, passion, sense of humour	rights, responsibilities, duties, privileges, work	become affiliated, cooperate, propose, share, dissent, obey, interact, agree on, express opinions	settings of participative interaction, parties, associations, churches, communities, neighbourhoods, family
Idleness	curiosity, receptiveness, imagination, recklessness, sense of humour, tranquility, sensuality	games, spectacles, clubs, parties, peace of mind	daydream, brood, dream, recall old times, give way to fantasies, remember, relax, have fun, play	privacy, intimacy, spaces of closeness, free time, surroundings, landscapes
Creation	passion, determination, intuition, imagination, boldness, rationality, autonomy, inventiveness, curiosity	abilities, skills, method, work	work, invent, build, design, compose, interpret	productive and feedback settings, workshops, cultural groups, audiences, spaces for expression, temporal freedom
Identity	sense of belonging, consistency, differentiation, self-esteem, assertiveness	symbols, language, religion, habits, customs, reference groups, sexuality, values, norms, historical memory, work	commit oneself, integrate oneself, confront, decide on, get to know oneself, recognize oneself, actualize oneself, grow	social rhythms, everyday settings, settings which one belongs to, maturation stages
Freedom	autonomy, self-esteem, determination, passion, assertiveness, open-mindedness, boldness, rebelliousness, tolerance	equal rights	dissent, choose, be different from, run risks, develop awareness, commit oneself, disobey	temporal/spatial plasticity

Source: "Human scale development" by Max Neef

Measurement units of Strategy system model SSM



1. **TUS index:** The index is used for measuring health status of the system.
2. **SPA index:** Measures quality of alignment between properties of a system
3. **SOP index:** Measures the performance of a social system as a whole.
4. **SGI index:** Measures outcome results of the social system's operation.
5. **TUS-SR index:** Measures impact to environment, resource, and society.

Some practical results of applying Strategy Social Model:

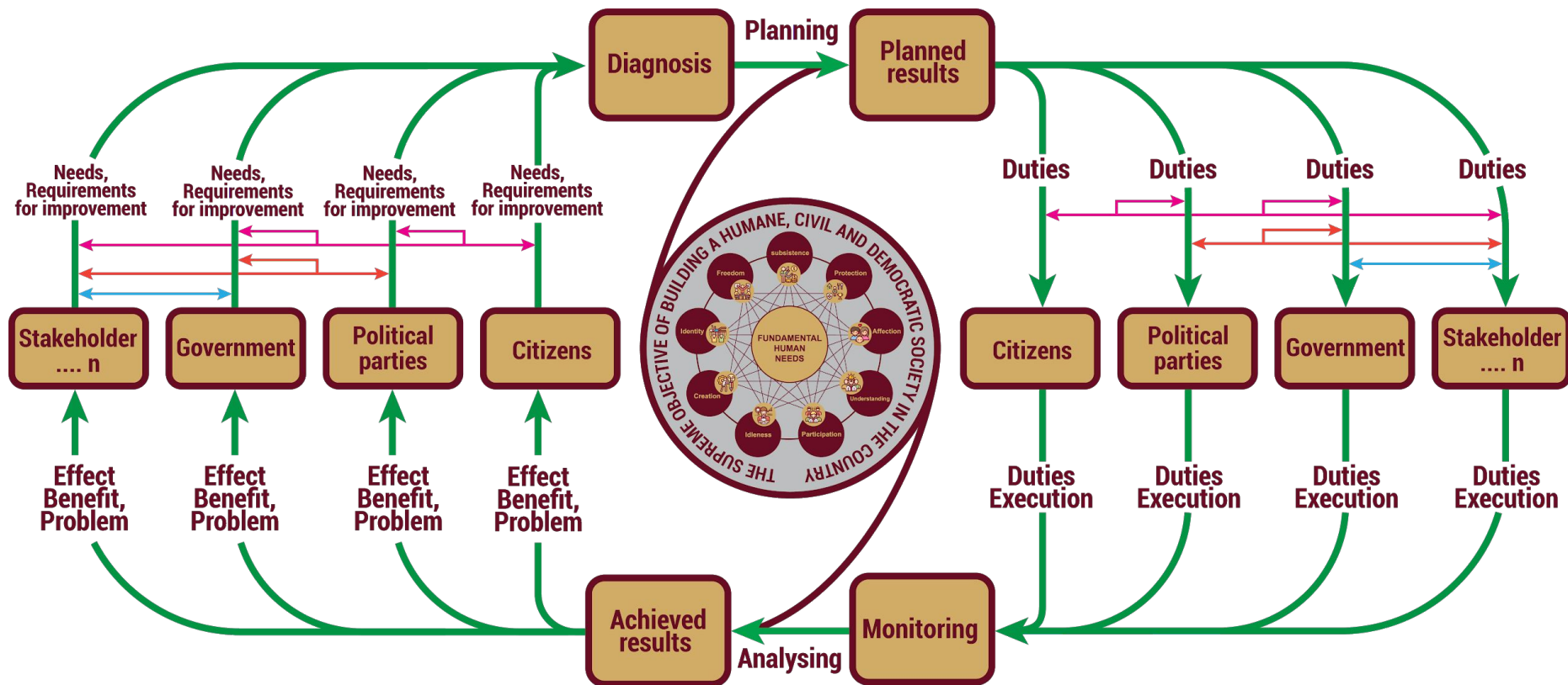


Mandatory properties of quality data

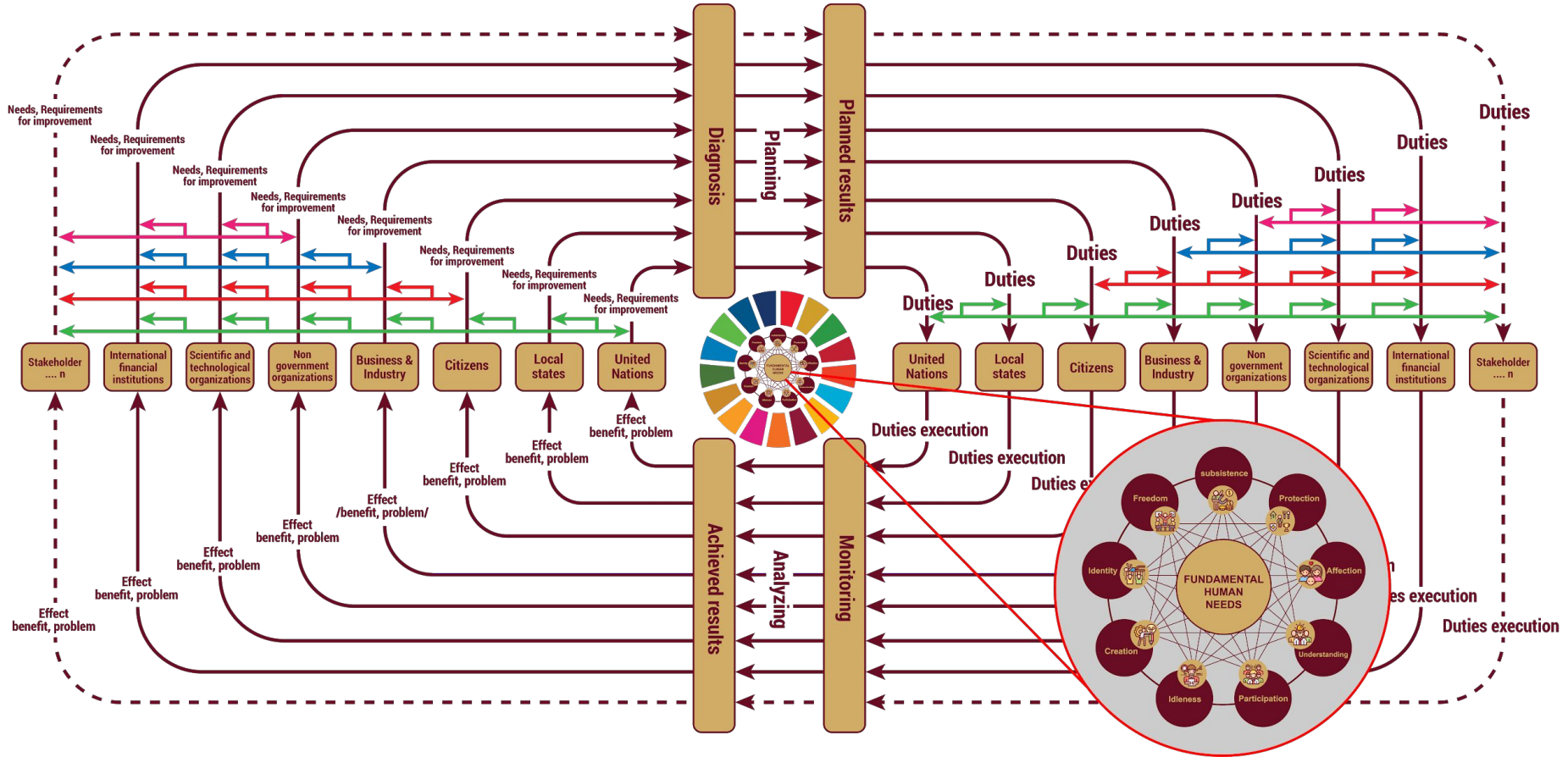




Human Centered Society Model based on the Constitution of Mongolia



Concept of social system model for realizing SDG's



Conclusions

1. There is a need to establish a model of logical representation of commonly shared goals
2. The model should serve as platform for creating consensus among multiple stakeholders.
3. SSM can be used as basis for establishing the above model.
4. SS Modeled activity aimed at implementing commonly shared goal should be able to generate good quality data which are essential for designing good quality metrics for measurement and more effective monitoring both performance and results.
5. Good quality data generated by the system enables all stakeholders to learn and take concerted actions that will enforce implementation of the goal.

Thank you for your attention



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