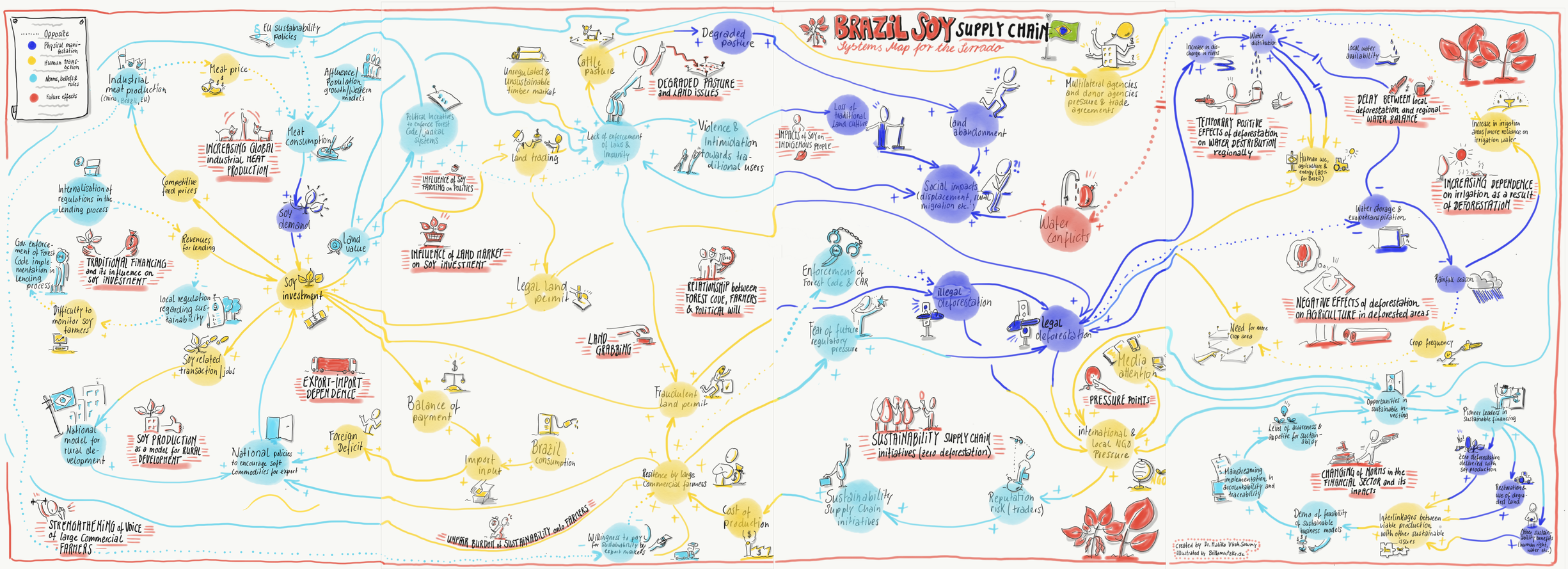
BRAZIL SOY SUPPLY CHAIN
Systems Map for the Cerrado
Opposite
Physical manifestation
Human transaction
Norms, beliefs & rules
Future effects
EU sustainability policies
Industrial meat production (China, Brazil, EU)
Meat price
Affluence / Population growth / Western models
INCREASING GLOBAL industrial MEAT PRODUCTION
Meat consumption
Competitive feed prices
Soy demand
Land value
Internalisation of regulations in the lending process
Gov. enforcement of Forest Code implementation in lending process
TRADITIONAL FINANCING and its influence on SOY INVESTMENT
Revenues for lending
Soy investment
Difficulty to monitor soy farmers
local regulation regarding sustainability
Soy related transaction / jobs
EXPORT-IMPORT DEPENDENCE
National model for rural development
SOY PRODUCTION as a model for RURAL DEVELOPMENT
National policies to encourage soft commodities for export
Foreign Deficit
STRENGTHENING of voice of large commercial FARMERS
Political incentives to enforce Forest Code / judical systems
INFLUENCE of SOY FARMING on POLITICS
INFLUENCE of LAND MARKET on SOY INVESTMENT
Unregulated & unsustainable timber market
Cattle pasture
Degraded pasture
DEGRADED PASTURE and LAND ISSUES
Land trading
Lack of enforcement of laws & Impunity
Violence & Intimidation towards traditional users
Legal land permit
RELATIONSHIP between FOREST CODE, FARMERS & POLITICAL WILL
LAND GRABBING
Balance of payment
Fraudulent land permit
Import input
Brazil consumption
Resilience by large commercial farmers
Cost of production ($)
UNFAIR BURDEN of SUSTAINABILITY onto FARMERS
Willingness to pay for sustainability by export markets
Loss of traditional land culture
IMPACTS of SOY on INDIGENOUS PEOPLE
Land abandonment
Social impacts (displacement, rural migration etc.)
Water conflicts
Multilateral agencies and donor agencies pressure & trade agreements
Enforcement of Forest Code & CAR
Fear of future regulatory pressure
Illegal deforestation
Legal deforestation
Media attention
PRESSURE POINTS
International & local NGO Pressure
SUSTAINABILITY SUPPLY CHAIN initiatives (zero deforestation)
Sustainability Supply Chain initiatives
Reputation risk (traders)
Increase in discharge in rivers
Water distribution
Local water availability
TEMPORARY POSITIVE EFFECTS of deforestation on WATER DISTRIBUTION regionally
DELAY BETWEEN local deforestation and regional WATER BALANCE
Increase in irrigation areas / more reliance on irrigation water
Human use, agriculture & energy (BOH-for DAM)
Water storage & evapotranspiration
INCREASING DEPENDENCE on irrigation as a result of DEFORESTATION
Rainfall season
NEGATIVE EFFECTS of deforestation on AGRICULTURE in deforested areas
Need for more crop area
Crop frequency
Opportunities in sustainable investing
Pioneer leaders in sustainable financing
Level of awareness & appetite for sustainability
Mainstreaming implementation in accountability and traceability
CHANGING of NORMS in the FINANCIAL SECTOR and its IMPACTS
Zero deforestation delivered with soy production
Restoration & use of degraded land
Demo of feasibility of sustainable business models
Interlinkages between viable production with other sustainable issues
Other sustainability benefits (human right, water etc.)
created by Dr. Nalika Vivek Sawant
illustrated by Bellamarkete.de