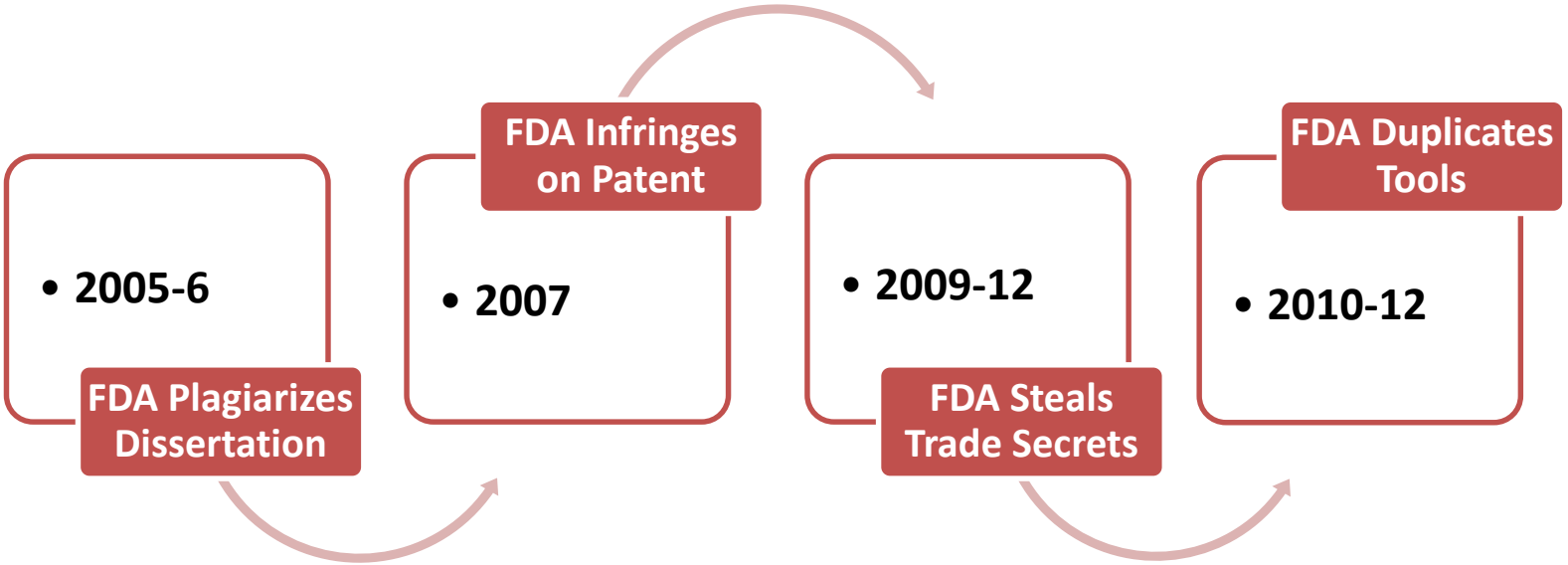
ENCLOSURE 2:

Ideas contained in Dr. Hnatio's 2007 patent disclosure that have been plagiarized by the FDA

FDA Plagiarism Timeline



TWENTY PATENT CLAIMS REDUCED TO PRACTICE FOR FOOD AND AGRICULTURE

Complexity Systems Management Method, Patent No.: US 8,103,601 B2					
Projectioneering LLC Patent Claims		**Patent Claims as Reduced to Practice for Food and Agriculture by FoodQuestTQ**		**Trade Secret for Food**	**Business Confidential**
1. A method of assessing and managing behavior of a complex adaptive system, comprising the steps of:	A. Inputting a first plurality of data defining parameters of said complex adaptive system;	1. Manage and assess the performance of the food life cycle across supply chain:	A . Determine the rules of operation for the different segments of the food supply chain, i.e., what they do and how they operate;	No	Yes
	B. Defining a plurality of fundamental events which determine behavior of said complex adaptive system;		B. Gather, study and group into categories past food safety, food defense and site safety and security events as they affect different segments of the food supply chain;	Yes	Yes
	C. Modifying at each of a plurality of times at least one of said first plurality of data to define a plurality of initial conditions;		C. Identify the operational conditions, i.e., the environment in which the different segments of the food supply operate;	Yes	Yes
	D. Testing each of said first plurality of data to determine a first subset of said first plurality of data which are most relevant to said plurality of fundamental events for each of said plurality of initial conditions in order to develop a plurality of scenarios of behavior of said complex adaptive system, and;		D. Develop scenarios of past and imagined events affecting different segments of the food supply chain, and;	No	Yes
	E. Measuring an effect of each one of said plurality of initial conditions of each respective one of said developed plurality of scenarios on said first subset of data to provide status information which is capable of being tested to indicate likelihood of an event occurring in said complex adaptive system.		E. Use the scenarios to determine the combinations of rules and operational conditions that indicate when, where and how likely an adverse event will occur.	Yes	Yes

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2. The method of claim 1 further including the steps of:	A. Testing each of said scenarios to determine for each scenario precise events which must occur to cause said complex adaptive system to exhibit said scenario; and determining for each tested scenario critical decision points.	2. The method of claim 1 further including the steps of:	A. Reverse engineer scenarios of past and imagined events to develop event paths that cause different events; determine where, when and why human interventions are required to prevent and mitigate adverse outcomes.	Yes	Yes
3. The method according to claim 1 including the further step of applying to said status information a first algorithm providing an estimate of an event sequence interruption.		3. Apply the CSM systems approach, i.e., deterrence, detection, communication, response time, response quality, consequence and mitigation to determine strengths and weaknesses using scenarios.		Yes	Yes
4. The method according to claim 3 wherein values obtained from said applying of said first algorithm provide an event quotient for each of said first subset of data.		4. Apply values for deterrence, detection, communication, response time, response quality, consequence and mitigation.		Yes	Yes
5. The method according to claim 3 further including the step of modifying said first plurality of data as a function of a result of said application of said first algorithm.		5. Input additional data to identify weaknesses and introduce risk reduction countermeasures when, where and how they are required.		Yes	Yes
6. The method according to claim 4 wherein said event quotient further includes a functional relationship based on an algorithm related to occurrence of natural events and an effect of said natural events on said first subset of data.		6. Determine the likelihood of weather and geologic events affecting/effecting agriculture and food facilities for the different segments along the food supply chain in different regions.		Yes	Yes
7. The method of claim 1 wherein said first subset of data are critical nodes of the complex adaptive system.		7. Determine the most important factors, i.e., critical nodes, that affect/effect the outcome of different scenarios.		Yes	Yes

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8. The method of claim 2 further including the steps of:	A. Modifying said first plurality of data to simulate predetermined events occurring in said complex adaptive system;	8. The method of claim 2 further including the steps of:	A. Develop simulated scenarios that produce predetermined outcomes; determine the affects/effects on where, when and why human interventions are required to prevent and mitigate adverse outcomes, i.e., critical decisions points; use decision/fault trees and other means to visualize the scenario, the sequence of events and the critical decision points.	Yes	Yes
	B. Determining the effects from said simulated events on said critical decision points; and forming decision fault trees from said determined effects.				
9. The method of claim 8 further including forming decision maps and computer models to manage said predetermined events.		9. Create decision maps and computer models to manage predetermined events.		Yes	Yes
10. A method of increasing the likelihood of behavior of a complex adaptive system, comprising the steps:	A. Defining fundamental elements which control the functioning of the complex adaptive system;	10. Preventing and improving responses to food safety, food defense and food site safety and security events by:	A. Defining the rules of operation for the different segments of the food supply chain across the food life cycle, i.e., what they do, when they do it and how they operate.	No	Yes
	B. Assigning a plurality of sets of initial values at a respective plurality of times to a plurality of features of the complex adaptive system;		B. Assigning baseline values for the probability of different events occurring; how vulnerable the activity is to different food safety, food defense and site safety and security events; the consequences associated with different types of events, and; for deterrence, detection, communication, response time, response quality, consequence and mitigation.	Yes	Yes
	C. Determining which ones of said plurality of features of the complex adaptive system are most directly related to said fundamental elements for each of said plurality of sets of initial conditions in order to develop a plurality of scenarios of behavior of said complex adaptive system, and;		C. Determining which of the features in b., above, are most directly related to the rules of operation, i.e. fundamental elements, and the environment, i.e., operational conditions, and develop scenarios.	Yes	Yes
	D. Measuring an effect of each one of said plurality of sets of initial conditions of each respective one of said developed plurality of scenarios on said ones of said plurality of features most directly related to said fundamental elements to generate sets of data functionally related to the likelihood of a particular occurrence in said complex adaptive system.		D. Measure the affect/effect of fundamental elements and operational conditions and generate scenarios to produce outcomes.	Yes	Yes

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11. The method of claim 10 further including the steps of:	A. Testing each of said scenarios to determine for each scenario precise events which must occur to cause said complex adaptive system to exhibit said scenario, and:	11. The method of claim 10 further including the steps of:	A. Reverse engineer test scenarios and develop event paths that cause different events; determine where, when and why human interventions are required to prevent and mitigate adverse outcomes.	Yes	Yes
	B. Determining for each tested scenario critical decision points.				
12. The method according to claim 10 including the further step of applying to said set of data a first algorithm providing an estimate of an event sequence interruption.		12. Apply CSM Method system process model where the interdiction of an event, i.e., prevention, is a function of deterrence, detection, communication, prevention, response time, response quality to produce an estimate of event sequence interruption.		Yes	Yes
13. The method according to claim 12 wherein values obtained from said applying of said first algorithm provide an event quotient for each of said ones of said plurality of features most directly related to said fundamental elements.		13. Apply values to deterrence, detection, communication, prevention, response time, response quality to produce an event quotient, i.e. event quotient.		Yes	Yes
14. The method according to claim 11 further including the step of modifying said plurality of features as a function of a result of said application of said first algorithm.		14. Modify assigned values through the introduction of risk reduction measures that achieve the interdiction of an event, i.e., prevention.		Yes	Yes
15. The method according to claim 13 wherein said event quotient further includes a functional relationship based on an algorithm related to occurrence of natural events and an effect of said natural events on said ones of said plurality of features most directly related to said fundamental elements.		15. Apply a natural hazards vulnerability ranking based on the probability of weather and geologic events occurring in a region, the consequences should such an event occur, i.e., weather and geologic events ranking, and the actions taken to mitigate the potential consequences, i.e., adjusted event quotient.		Yes	Yes

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16. The method of claim 11 further including the steps of:	A. Modifying said plurality of features to simulate predetermined events occurring in said complex adaptive system;	16. The method of claim 11 further including the steps of:	A. Determine the affects/effects of predetermined event paths for scenarios resulting in different events; determine the affects/effects of different event paths on where, when and why human interventions are required to prevent and mitigate adverse outcomes, i.e., critical decision points, and; use decision/fault trees and other means to visualize the scenario, the sequence of events, and the critical decision points.	Yes	Yes
	B. Determining the effects from said simulated events on said critical decision points; and forming decision fault trees from said determined effects.				
17. The method of claim 16 further including forming decision maps and computer models to manage said predetermined events.		17. Create decision maps and computer models to manage predetermined events.		Yes	Yes

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18. A computer program product for use with a digital computer for assessing and managing behavior of a complex adaptive system, said computer program product including a computer usable medium having a plurality of computer readable program code means embodied in said medium, comprising:	A. A first computer readable program code means containing a first plurality of data defining parameters of said complex adaptive system and a plurality of defined relationships which control the functions of the complex adaptive system;	18. The Food ProtectionTQ suite of automated computer software tools with computer readable codes that apply CSM Method process model comprising: • Food Defense Architect; • Food DefenseTQ; • Food Safety Architect; • Food SafetyTQ; • Food Mapper; • Food Event Analysis and Simulation Tool (FEAST), and; • Food Response Emergency Evaluation Tool (FREE).	A. A computer readable program code containing data defining the rules and operational conditions of food defense, food safety and food site safety and security and the defined relationships which control the occurrence, prevention and mitigation of different events;	Yes	Yes
	B. A second computer readable program code means causing a modification at each of a plurality of times at least ones of said first plurality of data to define a plurality of initial conditions;		B. A computer readable program code that can adjust the rules, fundamental elements, for food defense, food safety and food site safety as operational conditions change;	Yes	Yes
	C. A third computer readable program code means for testing each of said plurality of data to determine a first subset of said first plurality of data which are most relevant to said plurality of defined relationships for each of said plurality of initial conditions in order to develop a plurality of scenarios of behavior of said complex adaptive system, and;		C. A computer readable program code to determine which rules and operational conditions are most significant in producing outcomes in scenarios, and;	Yes	Yes
	D. A fourth computer readable program code means for determining an effect of each one of said plurality of initial conditions of each respective one of said developed plurality of scenarios on said first subset of data to provide status information which is capable of being tested to indicate likelihood of an event occurring in said complex adaptive system.		D. A computer readable program code for determining the affect/effect operational food defense, food safety and food site safety and security conditions that provide status information that can be tested to indicate the likelihood, i.e., probability, of an event occurring.	Yes	Yes

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19. The computer program product according to Claim 18 including a fifth computer readable code means for testing each of said scenarios to determine for each scenario precise events which must occur to cause said complex adaptive system to exhibit said scenario; and determining for each tested scenario critical decision points.	19. A computer readable code for testing scenarios to determine the precise events, i.e., event paths, which must occur to cause different food defense, food safety and food defense and site safety and security scenarios and determine where, when and why human interventions are required to prevent and mitigate adverse outcomes, i.e., critical decisions points for each tested scenario.	Yes	Yes
20. The computer program product according to Claim 19 including a sixth computer readable code means for applying to said status information a first algorithm providing an estimate of an event sequence interruption.	20. A computer readable program code that applies the CSM Method system process model to the above data where the interdiction of an event, i.e., prevention, is a function of deterrence, detection, communication, prevention, response time, response quality to produce an estimate of event sequence interruption.	Yes	Yes