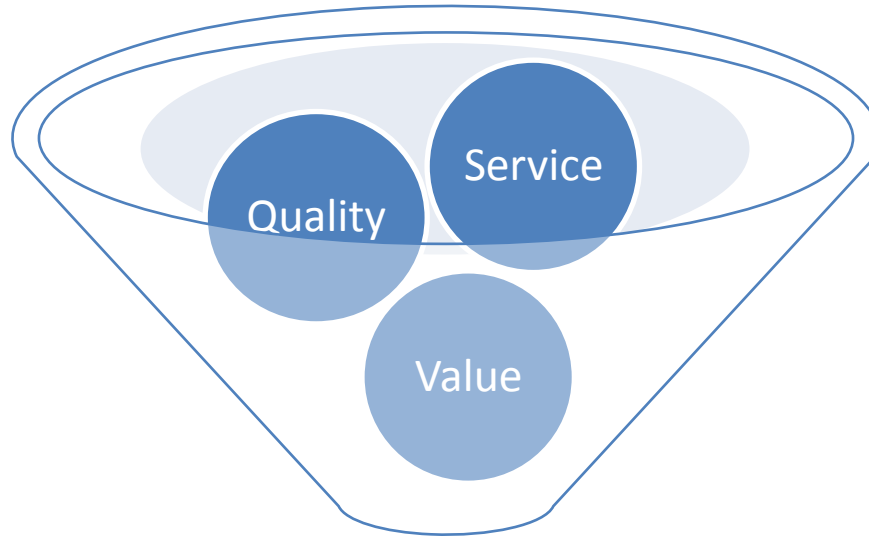


*Graded Foods*



*Health and Wellness*



*By, K.S.Venkatram (ADEC & SSGHIEC, 2016-2020)*

# Graded Foods to manage Crisis 2020

- **A. Managing Crisis 2020**
- The issue in the food and consumables manufacturing industry is that the products being manufactured are not graded for criteria that can help achieve RDA/RNI sufficiency, and sustainability for the bio-cluster.
- The need today is to help consumers use, return and reject products that have Chartered Incidence Response policies that can be used in action planning, incidence management and product-lifecycle management where a five-fold amplification and metering endpoint theory helps sustainable development, coverage and attainable supply.
- The need today is to get feedback, complaints, and quality checks to help achieve RDA/RNI sufficiency in products, and sustainability (in the bio-cluster).
- The feedback, complaints and quality checks could be assessed by the organization and by a Contact Centre, Advisory Centre or Surveillance Centre (that is part of an Information Hub), to thereon help meter the grade and acceptance level for each of the products, or their product categories, where this metering of grades or acceptance levels will indicate whether the utilization of such products will cause an impact on health, or on sustainability, or on dimensions of environmental pollution, or lead to more diverse climate change risks.
- The need is to add methodologies such as CPM\* (which stands for Critical Product (Leverage) Management), and PERT\* (which stands for Product Evaluation Review Techniques) for products that belong to a specific bio-cluster. Details follow in the later sections of this document.

# Graded Foods

- **B. From product evaluation to graded product evaluation**
- The current focus on sampling, food & safety controls, quality assurance could need to include parameters for Green Product culture Analysis, stock control and self-corrective analysis to ensure the organization can respond to problems, risks, threats and issues by showing sustainable development and deployment of P2PC solutions.
- **C. As part of the grading**
- The Chartered Incidence Response Policy reinstates that this can be achieved by implementing 2 methodologies PERT\* and CPM\*, intentionally named after their fore-bearing theories.
- 1. PERT\* that is based on the evaluation of the resources needed to manufacture the food or consumable.
- PERT\* uses data to rate the product for an Nth Connection Facade. The Nth Connection Facade projects that a food and consumables product has 'N' different connections where these connections could be categorized into the following:
  - A. Fit for Environmental, Social and National health goals
  - B. Fit for Economic demands
  - C. Fit for Social interests
  - D. Fit for Political demands
  - E. Rooted interests (business policy)
  - F. Unified ownership for a HGI makeup

# Graded Foods

- 2. CPM\* that is based on the (1) Relevance for HGI makeup, (2) Usefulness for HGI makeup, (3) Relativity for HGI makeup, (4) Reliability for HGI makeup and (5) Linear progression that will in turn effect the PERT\* lifecycle.
- CPM\* does expect the person assessing the product to be conversant with product literature. It helps a product lifecycle consultant or a consumer report information that acknowledges and controls involvement to identify the critical path in seed to shelf visions for product making and supply chaining.
- 3. Ensuring there is CPM\* will help achieve NEXT steps to ensure we can address change in the earth's sense of pronation to mitigate climate change, combat new or emerging diseases, unforeseen or increasing disease causing vectors, higher mortality rates, increasing cases of malnutrition, mutations in health, growth, immunity patterns or genes, inflammatory diseases.
- 4. Stock control and single window clearance for "unsold stock, returns, rejects" will also be important to converge on productization and achieve anticipatory area fulfillment.

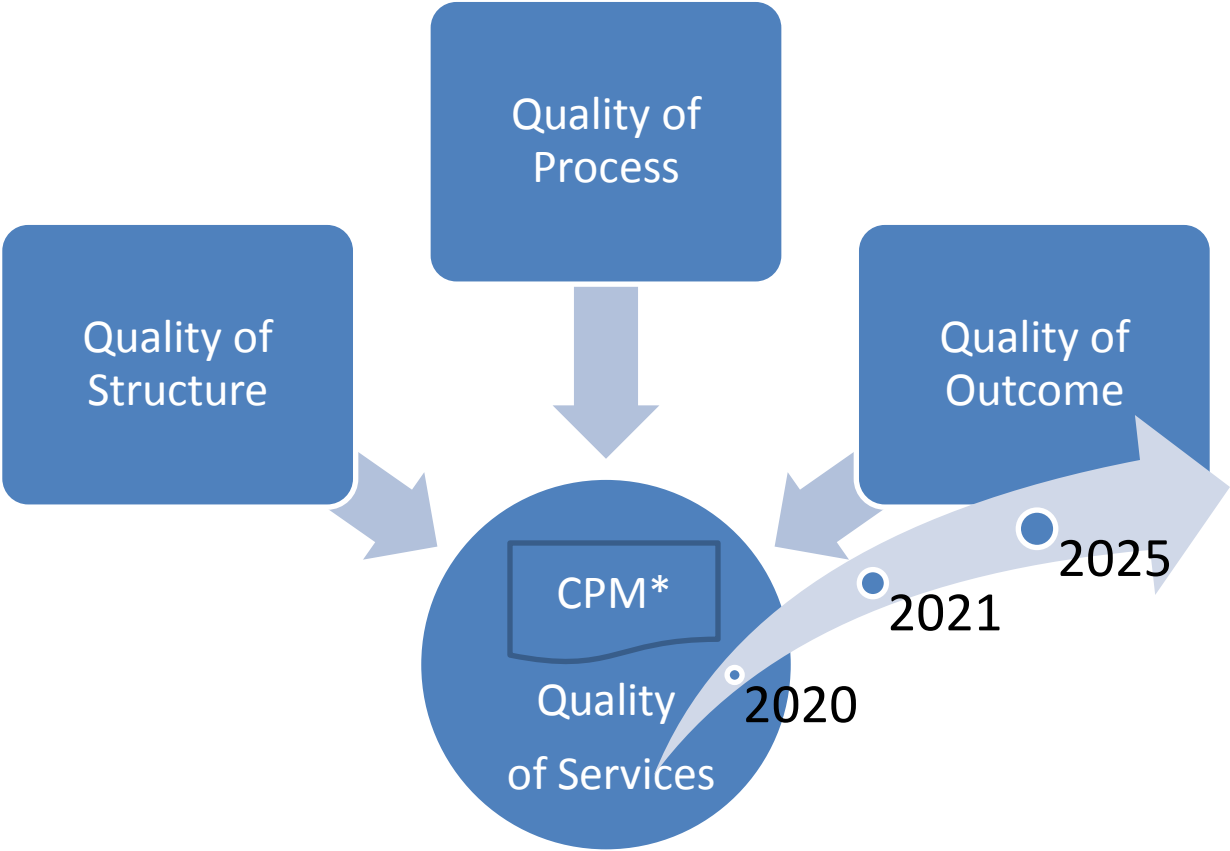
# Graded Foods

- **D. How can an organization achieve convergence?**
- To meet the needs for any “insight for convergence” the manufacturing organization, its associated businesses and its supply chain network will need to
- (i) Harvest **profile details** of product and services
- (ii) Harvest **analysis of fluctuations** while ensuring the supply of its products or services are safe for the customer, safe for the environment and safe for the urban landscape
- (iii) Harvest **analysis of events/incidence** to manage systemic transformations
- (iv) Harvest **analysis of convergence levels for a rate of innovation** in a ZST Radius methodology (the convergence level could be one of the following: Precise, or Comprehensive, or SMART (or Expedient), or Red Dots (Crucial lacunae) elimination and Probably-reasoned-for in meeting demand)

# Graded Foods

- **What is the background behind each of these levels?**
- 1. A Precise level could mean that the organization supplies an assured number of products to an exact network of outlets
- 2. A Comprehensive level could mean that the organization supplies an assured number of products with more coverage based on a policy for convergence
- 3. A SMART level could mean that the organization looks beyond the Law of Normal Distribution to
  - ensure zero systemic transformation occurs within the RADIUS important for the outlet, its supply chain or network
- 4. A Red Dots (Crucial lacunae) elimination level could mean that the organization supplies products
  - to respond to earth's sense of pronation to mitigate climate change, combat new or emerging diseases, unforeseen or increasing disease causing vectors, higher mortality rates, increasing cases of malnutrition, mutations in health, growth, immunity patterns or genes, inflammatory diseases
- 5. A Probably-reasoned-for in meeting demand level could mean the organization needs to supply products to meet a need for replacements, alternate products or to achieve a revenue model

# Critical Product Leverage Management



# CPM\*

- **Scope**
- This analysis does not expect to replace the efforts by nutritionists and dieticians to describe the ingredients of a balanced diet but looks at RDA/RNI/ingredient synthesis in the bio-cluster.
- It does expect the person filling in the information to be conversant with product literature, but can be simplified to permit feedback and information collection to acknowledge and control involvement to mitigate climate change, combat new or emerging diseases, unforeseen or increasing disease causing vectors, higher mortality rates, increasing cases of malnutrition, mutations in health, growth, immunity patterns or genes, inflammatory diseases.



# CPM\*

- **This analysis focuses on the following bio-clusters:**
- A. Gap Analysis for animal food products
- B. Gap Analysis for bakery food products
- C. Gap Analysis for beverage food products
- D. Gap Analysis for cereal products
- E. Gap Analysis for fruit and vegetable food products
- F. Gap Analysis for plantation and spice products
- G. Gap Analysis for micro-biology and fermentation products
- H. Gap Analysis for protein specialty products
- I. Gap Analysis for convenience food products
- J. Gap Analysis for disinfestation products

# CPM\*

- **Product name:** **Product Id:**
- **Bio-cluster:** Select from A-J (enumerated in page 4)
- **Description of product:**
- **Assessment and Feedback:**
  - **1. Does it satisfy the needs of consumers in a country, city, town, area or region**
  - [ ] on a demographic basis (Mandatory)
  - [ ] on a climate basis (High priority)
  - [ ] on a tradition or culture basis (Optional)
  - [ ] on a lifestyle basis (High priority)
  - [ ] on a health condition basis (High priority)
  - [ ] on a technological needs basis that is in turn (Optional)
    - expertise-based or state-of-art technology basis
  - [ ] on a legality or credibility basis (High priority)
  - [ ] on a socio-cultural interests basis (Optional)
  - [ ] on a green product culture basis (High priority)

# CPM\*

- **2. Does it satisfy the need to be easily available (or improve consumerism)**
- [ ] pricing (High priority)
- [ ] places where available (High priority)
- [ ] promotions to reach out to consumers (High priority)
- [ ] stock control for consumers (Mandatory)
- [ ] single-window clearance to help consumers (Mandatory)
- "return or reject products"
- [ ] with anticipatory area fulfillment to serve the weaker and (High priority)
- marginalized sections
  
- **3. Does it satisfy the need to be of good quality with**
- [ ] satisfactory or remarkable physical evidence (Mandatory)
- [ ] incorporation of food & safety controls (RDA/RNI/food safety practices, sustainability and climate change mitigation) (Mandatory)
- [ ] self-corrective methodologies to help the manufacturer/ (High priority)
- distributor/supplier/ reseller/retailer/commercial entity
- respond to problems, risks, threats and issues

# CPM\*

- **4. Does it satisfy the need to accelerate or aid**
- [ ] involvement for environmental safety (Mandatory)
- [ ] involvement for social goals (Mandatory)
- [ ] involvement for national health goals (Mandatory)
- [ ] incorporation of a link to an information hub that will (High priority)
- help the food and consumables industry improve the
- following aspects of the food product
  
- (1) Relevance for H (Health) G (Growth) I(Immunity) makeup
  
- (2) Usefulness for HGI makeup
  
- (3) Relativity for HGI makeup
  
- (4) Reliability for HGI makeup
  
- (5) Linear progression to address need for RDA/RNI/food safety practices, sustainability and climate change mitigation

# CPM\*

- **5. Does it include product packaging, product literature or consumer information like**
- [ ] color coding for nature of product and its ingredients (Mandatory)
- [ ] description of nature of testing for conscious consumers (Mandatory)
- [ ] fulfillment policy for longer shelf life in product (Mandatory)
- [ ] fulfillment policy for practices while using pesticides & insecticides (Mandatory)
- [ ] fulfillment policy to prevent unintended traces or residues (Mandatory)
- [ ] listing out of warnings, hazards, prescriptive consumption (Mandatory)
- [ ] highlighting of need for feedback (for a unified Green Customer Performance Program) (Mandatory)

# CPM\*

- **Using the response for the various questions**
- **A. For a product lifecycle consultant or business link**
- If the answer is Yes for all questions that have a (Mandatory) tag, then the product making and supply chain management is conformant for Critical Product Leverage.
- If the answer is Yes for all questions that have a (High priority) tag, then the product making and supply chain management is acceptable for Critical Product Leverage.
- If the answer is Yes for all questions that have an (Optional) tag, then the product making and supply chain management is socio-cultural convergent and tech savvy for Critical Product Leverage.
- For more detailed feedback, the author's toolkit also includes
- **1. A Manufacturer Satisfaction Survey**
- **2. A Supplier Satisfaction Survey**

# CPM\*

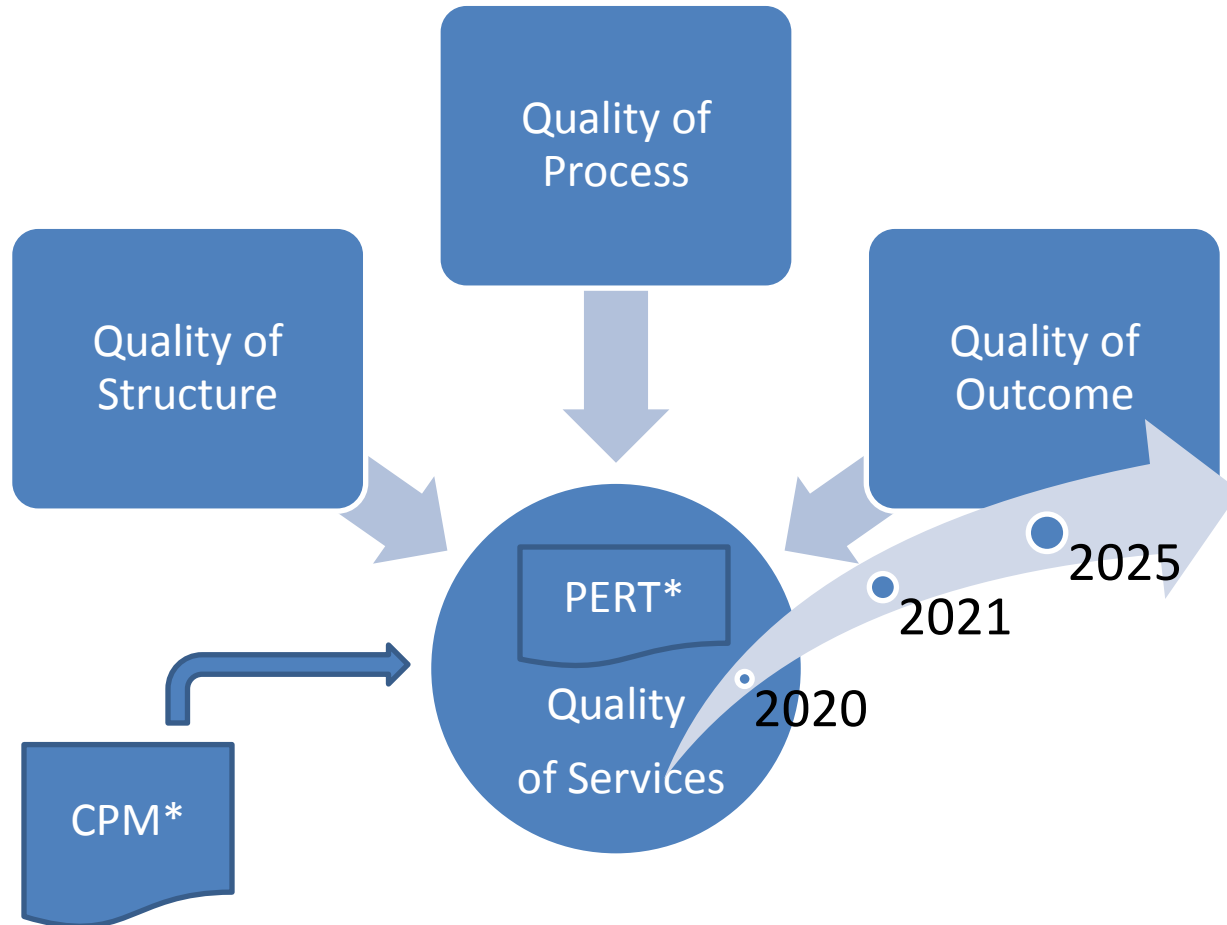
- **B. For a consumer**
- The unified effort to assess a product for its convergence with marketability, will help a consumer provide feedback that can report the current leverage of the product in the market.
- If the answer is No for all questions that have a (Mandatory) tag, then the product making and supply chain management is not conformant for Critical Product Leverage.
- If the answer is No for all questions that have a (High priority) tag, then the product making and supply chain management is not acceptable for Critical Product Leverage.
- If the answer is No for all questions that have an (Optional) tag, then the product making and supply chain management is not socio-cultural convergent, nor tech savvy as perceived by the end-consumer.
- For more detailed feedback, the toolkit also includes
- **1. A Customer Satisfaction Survey**

# CPM\*

- **About the Satisfaction Surveys**
- The 3 different Satisfaction Surveys are packaged in the author's toolkit.
- These can be customized further to suit the organization manufacturing food products and consumables.



# Product Evaluation Review Technique



# PERT\*

- **Scope**
- The PERT\* technique involves the evaluation of the resources needed to manufacture the food product or consumable.
- It does involve assessments for Carbon footprint reduction, Climate change impact reduction, & involvement for Environmental, Social and National health goals.
- This evaluation will associate a grade for Environmental, Social and National health goals, where the grade will be any of the following (for inputs or resources used in product making):
  - **ASSET** (Sustainable quality)
  - **Green or organic**
  - **Fresh or natural**
  - **Frozen or preserved**
  - **Implements P2PC** (Plan to Prevent and Control)
  - **Incorporates C-V-O-DC** (Chartered Incidence Response Policy specific, Variance and Overhead related data collection from supply chain network)
  - **Others**
  - **Not applicable**

# PERT\*

- The PERT\* technique uses data to rate the product for an Nth Connection Facade. The Nth Connection Facade projects that a food and consumables product has 'N' different connections where these connections could be categorized into the following:
  1. Fit for **Environmental, Social and National health goals**
  2. Fit for **Economic demands**
  3. Fit for **Social interests**
  4. Fit for **Political demands**
  5. **Rooted interests (business policy)**
  6. **Unified ownership for a HGI makeup**

# PERT\*

- The range of ranks that can be given to the grades (assigned to processes and ingredient synthesis used in the product making) is as follows:
  - **a. ASSET: Rank - 1**
  - **b. Green or organic: Rank - 2**
  - **c. Fresh or natural: Rank - 3**
  - **d. Frozen or preserved: Rank - 4**
  - **e. Implements P2PC (Plan to Prevent and Control): Rank 1**
  - **f. Incorporates C-V-O-DC (Chartered Incidence Response Policy specific, Variance and Overhead related data collection from supply chain network): Rank 1**
  - **g. Others: Rank - 5**
  - **h: Not applicable: Not rated**

# PERT\*

- **Explanation:**
- 1. An evaluation can assign the **ASSET grade** for an input or resource, if the "vision or seed to shelf lifecycle" processes or methodologies used are sustainable for Environmental, Social and National health goals.
- The ASSET grade is assigned if the processes or methodologies satisfy all of the following:
  - a. Carbon footprint reduction
  - b. Climate change impact reduction
  - c. Unified ownership for HGI makeup
- 2. An evaluation can assign the **Implements P2PC grade** for an input or resource, if the "product making, vision for delivery and operations management" processes or methodologies used have a design for conformity or high performance or due care analysis to plan for, prevent and control dimensioning, emergence,
  - incidences and contingency planning to reduce
    - a. Carbon footprints
    - b. Climate change impact
    - c. Lack of ownership for HGI makeup

# PERT\*

- 3. An evaluation can assign the **Incorporates C-V-O-DC grade** for an input or resource, if the "supply chain management" processes or methodologies used have a design for conformity or high performance or due care analysis to plan for, prevent and control supply chaining, incidences and contingency planning to reduce
  - a. Carbon footprints
  - b. Climate change impact
  - c. Lack of ownership for HGI makeup
  -
- 4. An evaluation can assign the **Green or Organic grade** for an input or resource, if the "farming, growing and control" processes or methodologies used are green or organic for Environmental, Social and National health goals
- 5. An evaluation can assign the **Fresh or Natural grade** for an input or resource, if the "animal food input" related processes or methodologies used are fresh or natural for Environmental, Social and National health goals

# PERT\*

- 6. An evaluation can assign the **Frozen or Preserved grade** for an input or resource, if the "farming, growing and control" or "animal food input" related processes
- or methodologies used need freezing or refrigeration or addition of a significant quantity of preservatives to satisfy product making for Environmental, Social and
- National health goals.
  
- a. Uncontrolled freezing or refrigeration of agricultural inputs can affect some of the health benefits in them.
  
- b. Uncontrolled freezing or refrigeration of animal food inputs can have some hazardous affects as the micro organisms in them can remain in a dormant state.
  
- c. Addition of higher %(s) of preservatives needs a well-established fulfillment policy to ensure the quality and food safety controls in product making and supply chaining are adhered to at all times.

# PERT\*

- 7. An evaluation can assign the **Others grade** for an input or resource, if the "vision or seed to shelf lifecycle" processes or methodologies used have a risk factor in product making and supply chaining for Environmental, Social and National health goals.
- 8. An evaluation can assign the **Not applicable tag** for an input or resource, if the "vision or seed to shelf lifecycle" processes or methodologies used have at best autonomous or different or "acceptable but non-conformant to PERT+“ business policies in product making and supply chaining for Environmental, Social and National health goals.



# PERT\*

- **This analysis focuses on the following bio-clusters:**
  - A. Gap Analysis for animal food products
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  - J. Gap Analysis for disinfestation products



# PERT\*

- **Assessment**
- **A. Category of consumer:**
- Select from
- [ ] National level consumers
- [ ] Urban consumers
- [ ] Rural consumers
- [ ] Healthcare providers
- [ ] Corporate networks
- [ ] Social networks
- [ ] Manufacturers
- [ ] Service providers
- [ ] Suppliers
- [ ] Resellers
- [ ] Third party vendors

# PERT\*

- **B. Business policy for product:**
- **Select from**
- [ ] Revenue-model and Terrarium dimensions
- [ ] Revenue-model and anticipatory area fulfillment for weaker and marginalized sections
- [ ] Revenue-model and demand fulfillment for nutritionists & dieticians
- **Convergence for rate of innovation and supply:**
- **Select from (\*)**
- [ ] Precise
- [ ] Comprehensive
- [ ] SMART (or Expedient)
- [ ] Red Dots (Crucial lacunae) elimination
- [ ] Probably-reasoned-for in meeting demand
- (\*) has been explained in the document titled "Graded Foods" a part of the toolkit.

# PERT\*

- **C. Category of consumer:**

- **Select from**

- Early life
- Preteens
- Teenage
- Young adults
- Middle age
- Senior citizens

- **D. Category of lifestyle:**

- **Select from**

- Functional lifestyles (regular consumers)
- Remedial lifestyles (consumers afflicted or recovering from diseases or illnesses)
- Affirmative lifestyles (consumers who are interested in RDA/RNI policies in the foods being consumed)

# PERT\*

- **E. Classification of synthetic clock:**
- **Select from**
- HGI calendar specific products
- anytime products
- best consumed in the MORNING
- best consumed in the AFTERNOON
- best consumed in the EVENING
- best consumed at NIGHT
- available ALL THROUGHOUT THE YEAR
- SEASONAL products
- WELLNESS or HEALTH beneficial products
- contingency planning

# PERT\*

- **What is the involvement for contingency planning?**
- Product can be used in disaster management, or emergencies, or endemics or epidemics, or to manage diseases caused by vectors.
- **Assessment:**
- **F. Description of agricultural inputs:**

Cropping pattern	Crops used	Grade details
Rabi crops		
Kharif crops		
Zaid varieties		
Based on a Seasonality Calendar		

# PERT\*

- **G. Description of animal food inputs:**

Category of animal food	Animal food used	Grade details
Milk and dairy products		
Poultry		
Meat (Red)		
Meat (White)		
Fish and marine food		



# PERT\*

- **H. Description of resources used:**

Resource Categories	Details of resources used	Grade details
Agricultural inputs		
Animal food inputs		
Man-made resources (Farm implements)		
Natural and Man-made inputs (Manure, fertilizers, pesticides)		

# PERT\*

- **H. Description of resources used:**

Resource Categories	Details of resources used	Grade details
Natural and man-made resources (Facilities)		
Natural and man-made resources (Water)		
Natural and Man-made Resources (Energy)		
Natural and Man-made resources (Waste generation)		
Man-made resources (Testing and controls)		

# PERT\*

- **H. Description of resources used:**

Resource Categories	Details of resources used	Grade details
Man-made resources (Packaging)		
Man-made resources (Storage management)		
Man-made resources (Stock management)		
Man-made resources (Pest control)		
Man-made resources (Disaster management)		
Man-made resources (Transportation and location management)		

# PERT\*

- **H. Description of resources used:**

Resource Categories	Details of resources used	Grade details
Man-made resources (Alternate or recoverable)		
Man-made resources (Human resources and participation in nutrition surveys, awareness programmes, discussion groups, referral programmes, climate change reduction programmes, outreach programmes)		

# PERT\*

- **Explanation for the ranking:** In PERT, the rating given to a product can be any of the following:
  - 1. Excellent (Has a rank 1 for all connections)
  - 2. Good (Has a lowest rank of 2 for connections)
  - 3. Average (Has a lowest rank of 3 for connections)
  - 4. Poor (Has a lowest rank of 4 for some connections)
  - 5. Has a risk factor (Has a lowest rank of 5 for some connections)
  - 6. Not applicable (Not rated for some connections)
- **Consolidated rating for the product:**
  - **Select from**
  - Excellent
  - Good
  - Average
  - Poor
  - Has a risk factor

# PERT\*

- **Future speak**
- The Rank is only meant to help the food and consumables industry internalize efforts for a Nth Connection Facade, which accelerates endeavors to transform product making and delivery into an ASSET.

# Chartered Incidence Response Policies

- The Chartered Incidence Response Policies are designed to help make a product a green and good quality product and also focus on RDA/RNI sufficiency (where this can help in making the bio-cluster sustainable).
- **What is the specification for the Chartered Incidence Response Policy?**
- The policy will help action planning, incidence management and product-lifecycle management by helping the organization implement a five-fold amplification and metering endpoint theory, by proposing the utilization of forms (similar to the Incidence Management practices in manufacturing and healthcare).
- 1. Incidences or Complaints Analysis
- 2. Incidences or Complaints Root Cause Analysis
- 3. Green Product culture Analysis
- 4. Stock control and Self-corrective Analysis
- 5. Incidence or Complaints Mitigation and Adaptation

# Chartered Incidence Response Policies

- The difference being the **five-fold amplification and metering endpoint theory** that helps in ingredient synthesis to seed elements in the Periodic table (\*), where the seeding will need to reinforce the rank given to the elements based on the following aspects:
  - 1. Relevance for HGI makeup
  - 2. Usefulness for HGI makeup
  - 3. Relativity for HGI makeup
  - 4. Reliability for HGI makeup
  - 5. Linear progression in consumption patterns, benefits and risks
- (\*) For more information on the Periodic table, please refer to the **Gap Analysis for synthesis** document in the author's toolkit.
- **About the analysis templates available in the author's toolkit**
- There are analysis templates available for Sentinel or Adverse or Near Miss Event Analysis, Incidences or Complaints Analysis, Incidences or Complaints Root Cause Analysis, Incidence or Complaints Mitigation and Adaptation, Green Product culture Analysis (based on PERT\* and CPM\*) and Stock control & Self-corrective Analysis.