

**‘Integrated Disaster Risk Management (IDRiM)
& Development ; Search for a Guiding Paradigm
using the Concept of Vitae System’**

BIJAYANAND MISRA & NORIO OKADA

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Management**

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SOME VERY ENCOURAGING TRENDS IN IDRiM SINCE 2000

- 1. SIGNIFICANT ADVANCE MENT IN OUR SYSTEMATIC SCIENTIFIC KNOWLEDGE.**
- 2. SIGNIFICANT ENHANCEMENT IN PARTICIPATORY MANAGEMENT INITIATIVES AT INTERNATIONAL AND NATIONAL LEVELS.**
- 3. NATIONAL GOVERNMENTS ARE MORE RESPONSIVE TO DISASTER MANAGEMENT THAN EVER.**
- 4. A LARGE NUMBER OF INTERNATIONAL AND NATIONAL LEVEL NODAL RESEARCH AGENCIES HAVE BEEN CREATED & DEVELOPING NETWORKING.**

HOWEVER, SOME IMPORTANT LESSONS LEARNT IN IDRiM SINCE 2000

- LESSONS –
 - OUR KNOWLEDGE IS SIGNIFICANTLY ENRICHED, WE HAVE PROGRESSED IN INSTITUTION BUILDING, YET, WE HAVE NOT BEEN ABLE TO REDUCE LOSS SIGNIFICANTLY.
 - DESPITE SIGNIFICANT INCREASE IN PUBLIC AWARENESS, AT THE LOCAL / COMMUNITY LEVEL IDRiM EFFORT IS LARGELY WEAK AND DO NOT HAVE A SUSTAINABLE FRAME OF ACTION.
 - AMONG THE VICTIMS IT IS THE POOR AND OTHER DISADVANTAGED GROUPS THAT HAVE SUFFERED MOST AND THEIR RECOVERY & REHABILITATION INVARIABLY BEEN SLOW, EVEN OFTEN NEGLECTED, IN MOST CASES.

IDRiM CHALLENGES IN IMPLEMENTATION (PROCESS TECHNOLOGY)

- **NEED TO EXPAND INTO -**
- **A HOLISTIC APPROACH TO VULNERABILITY REDUCTION EFFORTS & FOCUS ON HUMAN ELEMENT INSTEAD OF JUST HUMAN NUMERICALS. SURVIVAL AND SUSTAINABILITY ISSUES NEED TO BE VIEWED MORE REALISTICALLY.**
- **THUS, THE NEED IS TO BRING EXPLICIT AND STRONG FOCUS ON REDUCING RISK & VULNERABILITY OF THE ECONOMICALLY, SOCIALLY & PHYSICALLY DISADVANTAGED GROUPS.**
- **THUS THE URGE IS TO STRENGTHEN IMPLEMENTATION SCIENCE THROUGH IMPROVED LOGIC & METHODOLOGY TO ACHIEVE BETTER SYNERGY.**

ENCOURAGING INITIATIVES IN INDIAN DISASTER MANAGEMENT SCENARIO

NATIONAL DISASTER MANAGEMENT AUTHORITY ESTABLISHED, 2005
AFTER THE 2004 ASIAN TSUNAMI.

NATIONAL LEVEL INITIATIVES –

- DURING 2000-2004 MOST STATE (SUB-NATIONAL) GOVERNMENTS ESTABLISHED DISASTER MANAGEMENT AUTHORITIES WITH ADEQUATE FINANCIAL AND LEGAL SUPPORT ENHANCING THEIR DISASTER RESPONSE CAPACITY.
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- STATE GOVERNMENTS HAVE STARTED TO LINK THEIR COMMUNITY BASED DISASTER MANAGEMENT PROGRAMMES (CBDM) WITH THE NATIONAL PROGRAMMES AND ALSO WITH THE DISASTER RISK MANAGEMENT PROGRAMME OF UNDP.

ENCOURAGING INITIATIVES IN INDIAN DISASTER MANAGEMENT SCENARIO

- MAJOR INITIATIVES IN THE HIGH DISASTER PRONE GUJRAT & ORISSA STATES ,2000-2005
 1. FORMATION OF STATE DISASTER MANAGEMENT AUTHORITIES AND DELEGATION RESPONSIBILITIES WITH LEGAL SUPPORT.
 2. FAIRLY SUCCESSFUL TARGET COMPLETION OF RECOVERY AND RECONSTRUCTION WORK AFETR THE DEVASTATING EARTHQUAKE .
 3. FORMULATION OF STATE POLICIES AND PREPARATION FOR DISASTER MANAGEMENT PLANS WITH FOCUS ON DISASTER INSURANCE
 4. FOCUS ON DISASTER PREPAREDNESS INITIATIVES AND CAPACITY BUILDING.
 5. PREPARATION FOR INTEGRATING DEVELOPMENT WITH DISASTER
 6. AWARENESS & COMMUNITY PREPAREDNESS THROUGH TRAINING AND SCHOOL EDUCATION & SCHOOL SAFETY INITIATIVES.

THERE ARE ALSO CLEAR WEAKNESSES IN THE INDIAN SCENARIO

- IDRiM APPROACH IS MORE REACTIVE THAN PROACTIVE, SECTOR BASED THAN INTEGRATED & COORDINATED. NO CONVINCING LOGICAL PARADIGM IS AVAILABLE FOR GUIDANCE & CHANGE IN THE STYLE.
- PRACTICALLY NO COORDINATION BETWEEN IDRiM , ENVIROMENTAL MANAGEMENT & LAND USE PLANNING DUE TO LACK OF LOGICAL & OPERABLE MECHANISM.
- LOCAL/COMMUNITY LEVEL INITIATIVES (DESPITE A NUMBER OF SMALL SCALE SUCCESS STORIES) REMAIN SCATTERED, INADEQUATE IN SCALE, THEREFORE, NOT CATALYTIC.
- LOW PUBLIC TRUST ON WHAT GOVERNMENT CAN DO.

HOW CAN WE MEET THE IDRiM CHALLENGES BUILDING ON RECOGNITION OF STRENGTHS & WEAKNESSES ?

- SOME ACTIONS REQUIRED TO MAKE **IDRiM** MORE EFFECTIVE & SUSTAINABLE-
 1. STRONGER EFFORT IN MAINSTREAMING DISASTER MANAGEMENT INTO **DEVELOPMENT PROCESS** FOR SYNERGY AND HIGHER EFFICIENCY.
 2. USE INDIGENOUS KNOWLEDGE THAT HAS FOR LONG SUSTAINED PEOPLE TO COPE WITH DISASTERS.
 3. PROMOTE **DRH** AS AN EASY ACCESS INTERNET PLATFORM FOR HIGH QUALITY ACTION ORIENTED DATABASE .
 4. EVOLVE CONVINCING AND EASILY ACCEPTABLE PARADIGM TO STERNGTHEN IMPLEMENTATION USING VARIOUS MODELS.

HOW CAN WE MEET THE IDRiM CHALLENGES BUILDING ON RECOGNITION OF STRENGTHS & WEAKNESSES ?

3. CHARGE IDRiM RESEARCH WITH MORE MULTI-SPATIAL AND TEMPORAL APPROACH AND WELCOME MORE MULTI-DISCIPLINARY INPUTS FROM ALL SECTORS INCLUDING THAT FROM PUBLIC, CORPORATE & VOLUNTARY AGENCIES.

HOW CAN WE MEET THE IDRiM CHALLENGES BUILDING ON RECOGNITION OF STRENGTHS & WEAKNESSES ?

2. UNDER **CASiFiCA** PROMOTE FIELD ANALYSIS CAPABILITY AND PROBLEM SOLVING ABILITY OF YOUNG PROFESSIONALS.
3. USE ENHANCED QUALITY OF FIELD KNOWLEDGE GAINED TO DEVELOP BETTER IMPLEMENTATION TOOLS, MODELS AND MORE EFFECTIVE RESEARCH METHODOLOGIES.

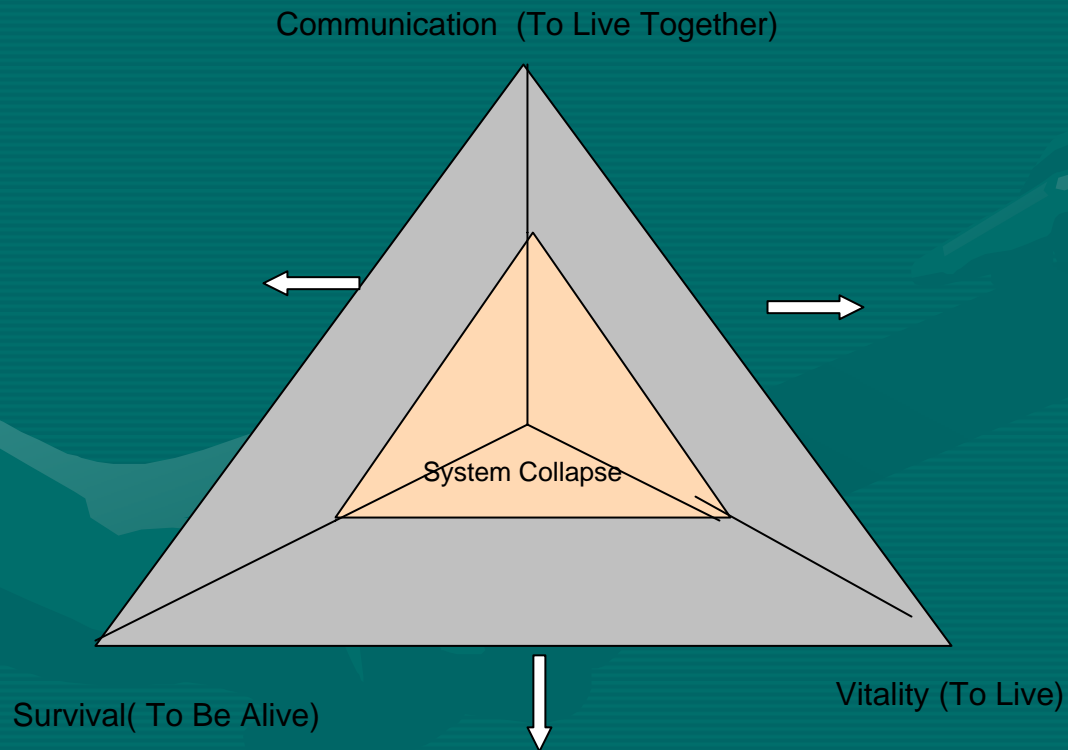
SEARCH FOR ACCEPTABLE PARADIGM AS PROCESS TECHNOLOGY (IMPLEMENTATION SCIENCE) FOR IDRiM

- SEARCH FOR A PARADIGM USING THE CONCEPT OF VITAE SYSTEM.
 - VITAE SYSTEM IS BASED ON A GENERIC CONCEPT TOWARD TOTAL VULNERABILITY REDUCTION IN A SOCIETY.
- THE SUGGESTED TECHNO-SOCIAL MODEL CONSISTS OF THREE COMPONENTS GENERIC TO ALL SOCIETIES:
 - VITALITY – (TO LIVE BETTER & ACHIEVE RESILIENCY TO VULNERABILITY)
 - SURVIVAL– (TO BE ALIVE)
 - COMMUNICATION—(TO LIVE TOGETHER USING TRANSPORTATION, NETWORKING & COMMUNITY)

VITAE SYSTEM MODEL

– OPEN ENDED BASIC SYSTEM

SCHEMA OF VITAE SYSTEM



Assumption – collapse starts at half of equilibrium point

PREREQUISITES IN APPLICATION OF VITAE SYSTEM

1. **AVOID COLLAPSE OR FAILURE OF EACH COMPONENT (SUB-SYSTEM).**
2. **EVOLVE PERFORMANCE INDICATORS FOR EACH COMPONENT AT EACH STAGE OF DEVELOPMENT PROCESS.**
3. **ENSURE OPTIMIZED RESOURCE / COST ALLOCATION BETWEEN THE THREE COMPONENTS AT EACH STAGE OF DEVELOPMENT.**
4. **CREATE INSTITUTIONAL CAPACITY THROUGH TRAINING, NETWORKING & REGULATIONS TO INTERNALIZE KNOWLEDGE AND ENHANCE SYNERGY BETWEEN THE THREE COMPONENTS.**

PEOPLE'S PERCEPTION OF VULNERABILITY & ACTION RESPONSE

Risk /Disaster Reduction Behavior Schema

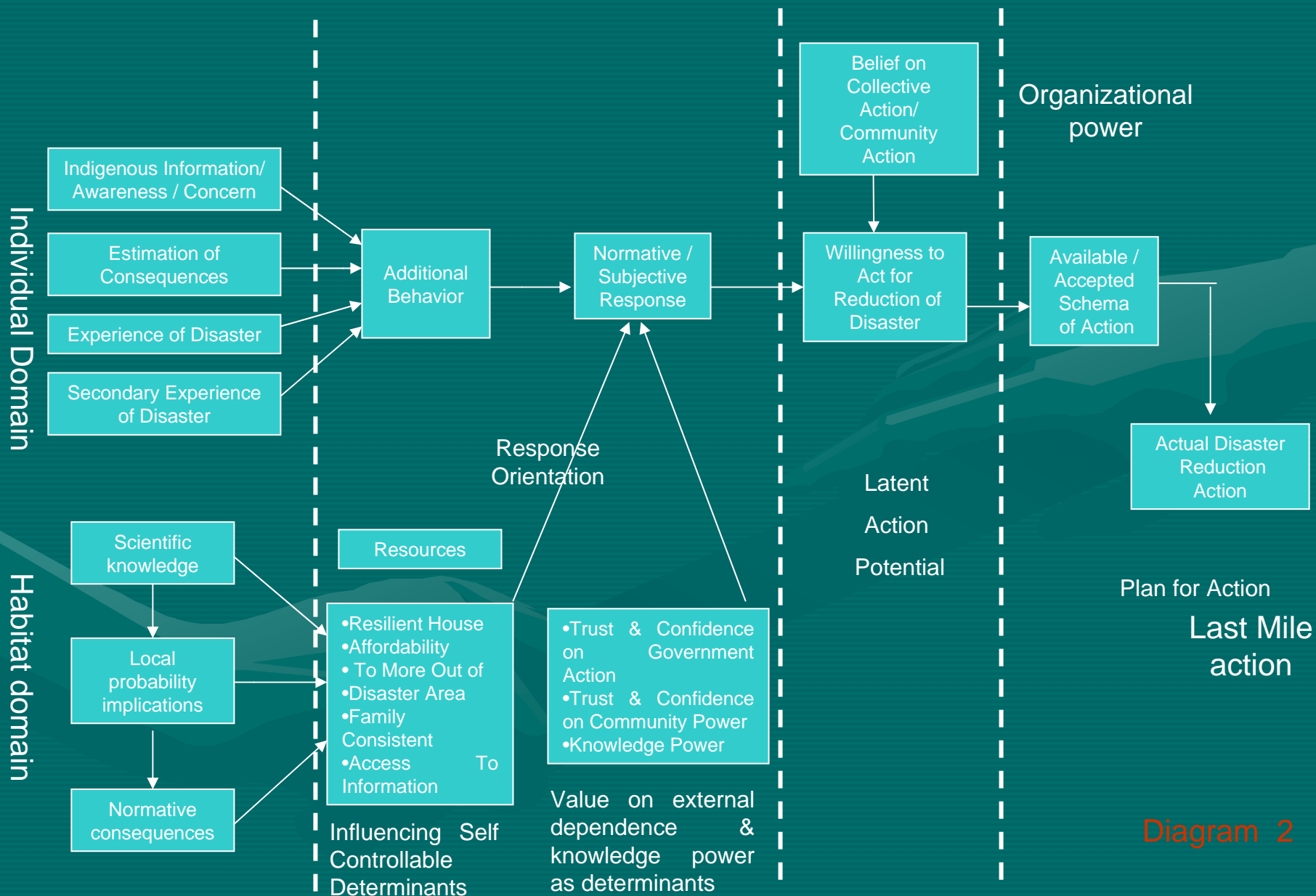


Diagram 2

APPLICATION OF VITAE SYSTEM TO STAGES IN DEVELOPMENT PROCESS 1

Vitality – To Live / Economic Growth toward Better Quality of Living

Value -1 – Survival / to be Alive /Individual Sustainability at Risk

Value -2 - Communication/ To Live Together/Network

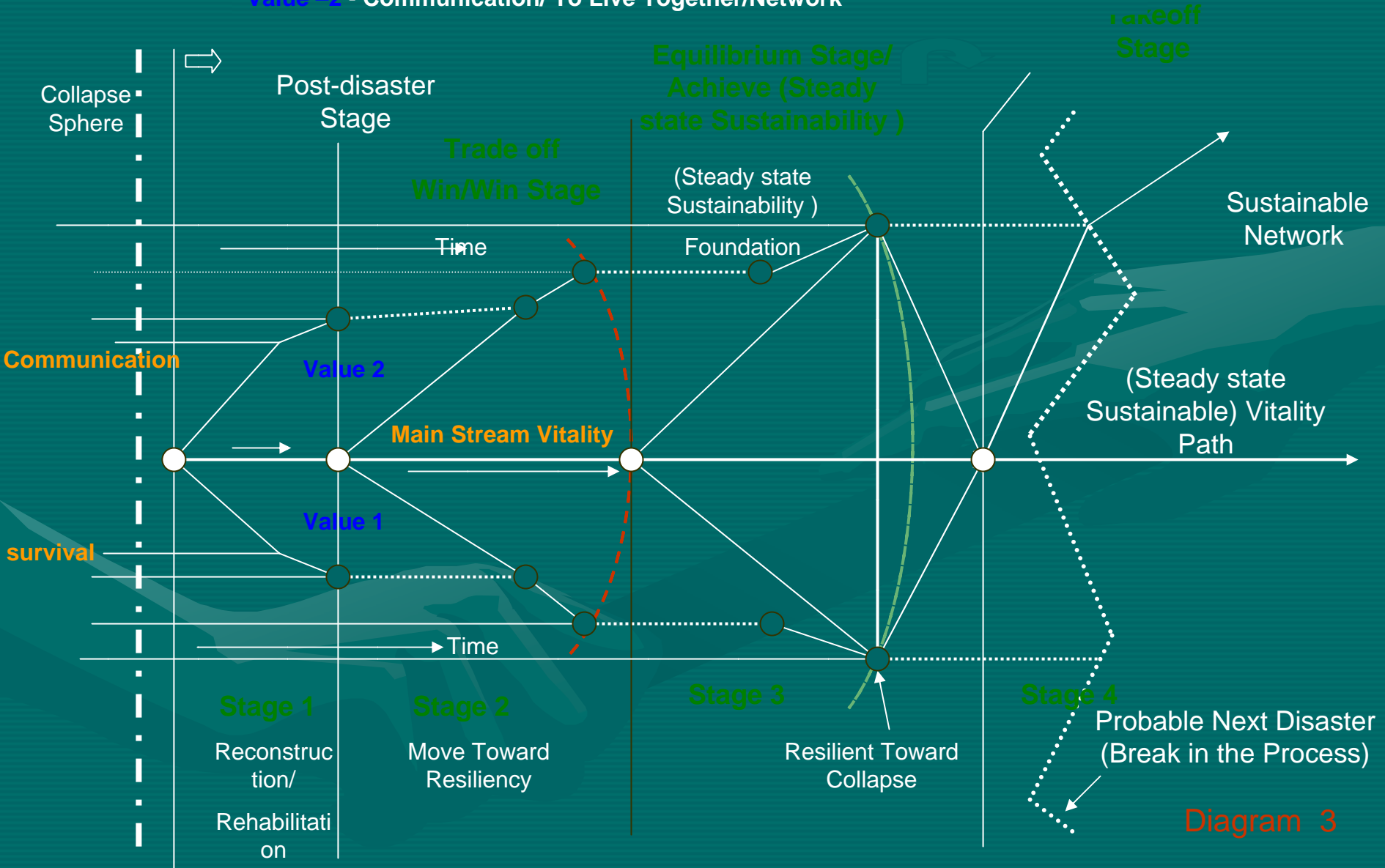
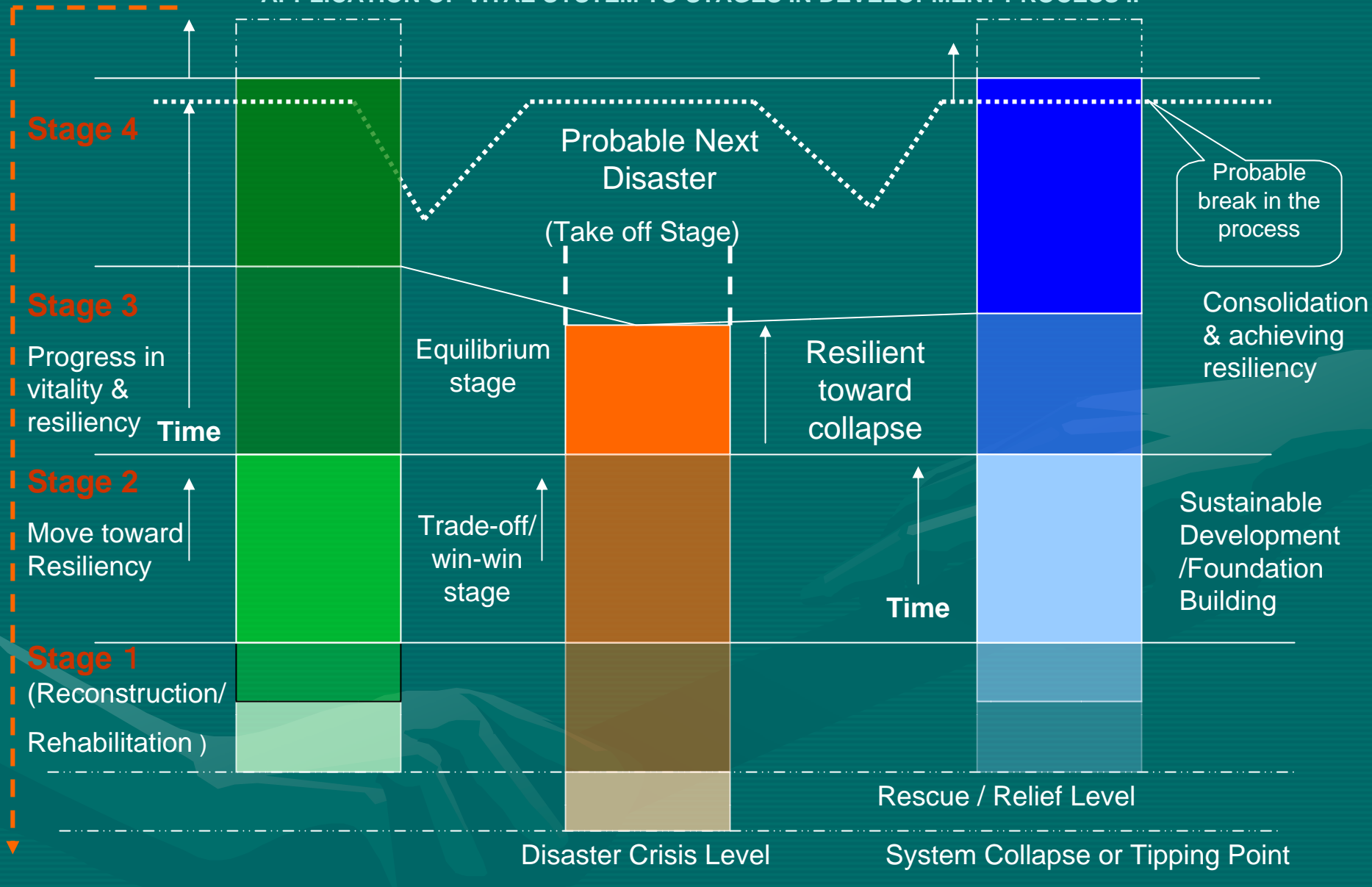


Diagram 3

APPLICATION OF VITAE SYSTEM TO STAGES IN DEVELOPMENT PROCESS II



- Vitality (To Live) growth** toward enhancement of quality of living/ individual & vitality sustainability is at risk
- Survival (To Be Alive)** individual sustainability at risk
- Communication (To Live Together)** support sustainability of vitality & survival

Diagram 4

HOW DO WE SUSTAIN VITAE SYSTEM APPROACH AS DISASTERS CHALLENGE EACH COMPONENT OF THE SYSTEM ?

- ONE WAY IS TO EVOLVE INDICATORS OF SUCCESS FOR EACH COMPONENT.

– TO ILLUSTRATE –

SURVIVAL COMPONENT

AMONG OTHERS, INDICATORS OF SUCCESS SHOULD INCLUDE EXTENT OF RISK INSURANCE COVERAGE, ESPECIALLY, FOR THE LOW INCOME & THE POOR.

COMMUNICATION COMPONENT

AMONG OTHERS, INDICATORS OF SUCCESS SHOULD INCLUDE AWARENESS LEVEL, QUALITY OF RISK COMMUNICATION METHODS ,WOMEN PARTICIPATION IN DECISION MAKING.

HOW DO WE SUSTAIN VITAE SYSTEM APPROACH AS DISASTERS CHALLENGE EACH COMPONENT OF THE SYSTEM ?

- **VITALITY COMPONENT SHOULD INCLUDE**
 - **VULNERABILITY MAPPING & DISASTER MICRO ZONING.**
 - **MACRO & MICRO ECONOMIC ANALYSIS.**
 - **RECONSTRUCTION TO ENHANCE INVESTMENT CLIMATE.**
 - **FAST LIVELIHOOD RECOVERY FOR THE SOCIALLY & ECONOMICALLY DISADVANTAGED.**
 - **ENHANCED AND SUSTAINABLE MANAGEMENT CAPABILITIES.**

PROCESS TECHNOLOGY & CASE STATIONS / FIELD CAMPUSES OPERATION UNDER CASiFiCA

- LEARNING

- FIELD KNOWLEDGE



- YOUNG PROFESSIONALS

INNOVATIVE FIELD
KNOWLEDGE

BETTER LOGIC &
THEORETICAL BASE

GREATER OUTREACH & WIDER
SPATIAL IMPACT IN IDRiM

- PRACTICE

PARTNERSHIP WITH
INSTITUTIONS

RESEARCH INSTITUTIONS

UNIVERSITIES

NGOs

LOCAL GOVERNMENT

ENHANCED FIELD
PRACTICE CAPABILITY

FIELD TEST OF
PARADIGM

LET US LEARN & WORK TOGETHER & MAKE OUR HABITATS
DISASTER SAFE.

- THANK YOU FOR YOUR PATIENT HEARING.