



NBC UNIT of IDN ARMY ENGINEERS RESPONSE to COVID-19 PANDEMIC

Roles, Functions, and Lessons Learned in Multi Agencies Response

presented by

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APRU Multi-Hazards Webinar Series:
A new approach for disaster risk management after COVID-19
(Session II) - Strengthening disaster management strategies
through multi-stakeholder partnerships



SCOPE



- NBC Unit at Glance
- The Involvement in Covid-19 Pandemic Response
- The Challenges
- Lessons Learned



NBC UNIT at GLANCE



- ESTABLISHED : 1991 (NBC UNIT of IDN ARMY ENG)
- MAIN TASK : TO PROVIDE ENGINEER SUPPORT IN CBRN PROTECTION
- ORGANIZATIONAL CHART:



SMALLEST UNIT : PLATOON SIZE
CONSIST of :

- RECCON TEAM
- DECON TEAM
- EVAC & DISPOSAL TEAM



■ EQUIPMENTS:





The INVOLVEMENT in COVID 19 – PANDEMIC RESPONSE



NATUNA ISLAND QUARANTINE

- PERSONEL
24 Pax of NBC Unit
- DEPLOYED:
1 PEB 2020
- TASKs:
 - Decontamination
 - Infectious Waste Disposal
 - Zoning Area & Controlling Cross Contamination
- DURATION:
14 Days
- INFECTED PERSONEL
Nil





SEBARU ISLAND QUARANTINE

- PERSONEL
24 Pax of NBC Unit
- DEPLOYED:
26 PEB 2020
- TASKs:
 - Decontamination
 - Infectious Waste Disposal
 - Zoning Area & Controlling Cross Contamination
- DURATION:
14 Days
- INFECTED PERSONEL
Nil





KEMAYORAN-JAKARTA & GALANG ISLAND COVID-19 HOSPITALS

- PERSONEL
60 Pax of NBC Unit
- DEPLOYED:
Since 23 MARCH 2020
up to day
- MAIN TASK:
 - Decontamination
 - Infectious Waste Disposal
 - Zoning Area & Controlling Cross Contamination
- DURATION:
Rotated Per 2 Months
- INFECTED PERSONEL :
Nil

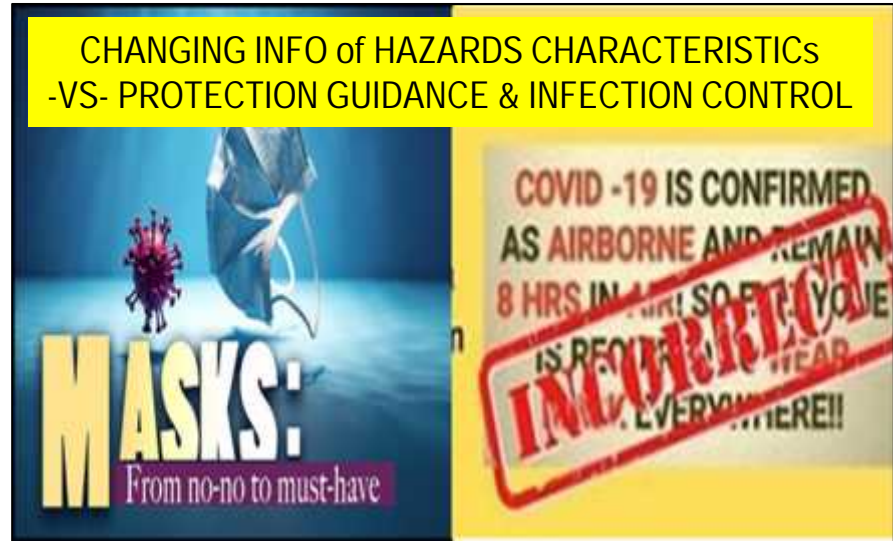




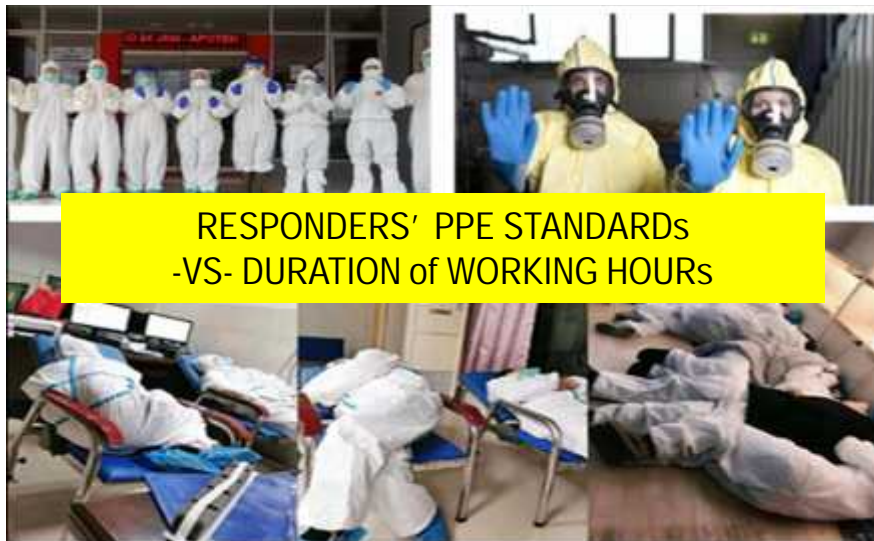
THE CHALLENGES



EQUIPMENT DIMENSION -VS- RAPID MOBILIZATION



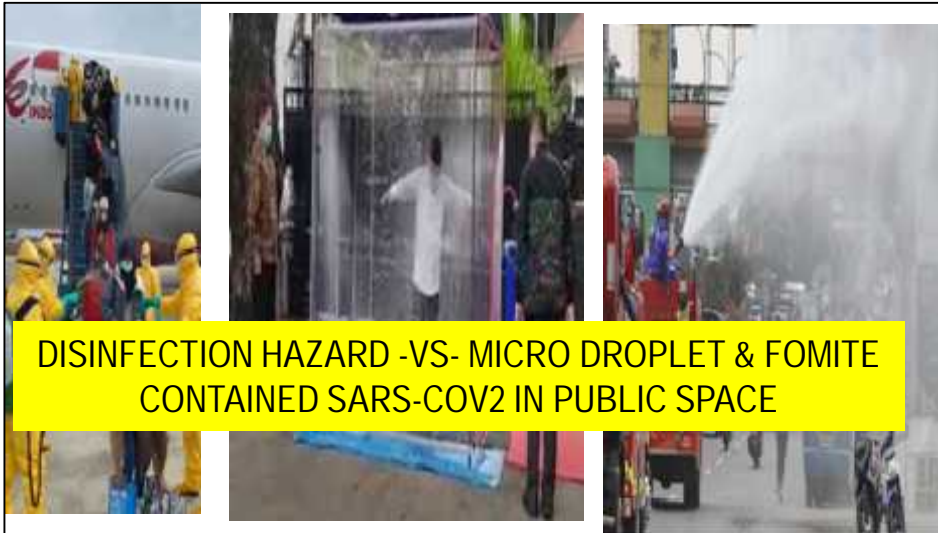
CHANGING INFO of HAZARDS CHARACTERISTICs
-VS- PROTECTION GUIDANCE & INFECTION CONTROL



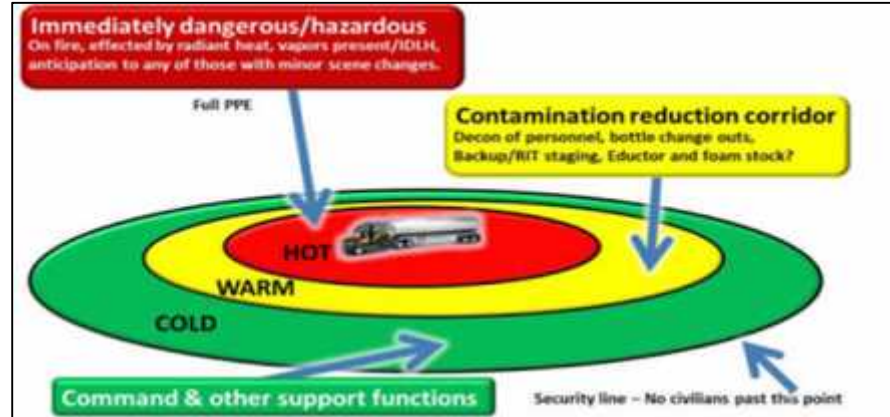
RESPONDERS' PPE STANDARDs
-VS- DURATION of WORKING HOURS



RELIABILITY & AVAILABILITY
of DETECTION MEANS -VS- FINDING INFECTED
INDIVIDUAL / INFECTION SPREADER



DISINFECTION HAZARD -VS- MICRO DROPLET & FOMITE CONTAINED SARS-COV2 IN PUBLIC SPACE



LIMITED IMPLEMENTATION of HAZARD AREA ZONING SYSTEM for HANDLING INFECTED/CONTAMINATED TARGET or PROTECTING FACILITY



EMERGENCY SITUATION -VS- VARIOUS EMERGENCY CALL NUMBERS





LESSON LEARNED



- EPIDEMIC/PANDEMIC DISSASTER : HEALTH CRISIS → CBRN CRISIS
- NATECH DISSASTER : CBRN CRISIS → HEALTH CRISIS
- PRIORITY of TASKS : - LIVE SAVINGS,
- PROTECTION of PEOPLE/COMMUNITY &
ENVIRONMENT from THE HAZARD and ITS IMPACTs
- HAZARD PROTECTION : IMPORTANT to UNDERSTAND TYPES of HAZARDS
and ROUTES of EXPOSURES
- LOCAL RESPONDERS : THE MAIN KEYS TO CONTAIN THE HAZARD &
TO MINIMIZE THE IMPACTS
- MULTI AGENCIES RESPONSE:
 - Requirement : Rapid, Massive, & Integrated Responses
 - Build On : Communication, Cooperation, Collaboration,
Command & Control
 - On the Location : Units' Interoperability and Familiarity about Hazard Area Zoning
System for Contamination/Infection Control



- NATECH DISASTER / CBRN INCIDENT PREPAREDNESS:
 - CBRN HAZARD PREDICTION MODELS and MAPPING RESOURCES
 - SINGLE INTEGRATED EMERGENCY CALL NUMBER
 - STANDARDIZATION in CBRN EQUIPMENTS, TECHNIQUES & RESPONSE PROCEDURES:
 - ✓ Hazard Early Warning and Notification System
 - ✓ Individual Protective Equipment (Donning/Doffing)
 - ✓ Detection / Identification
 - ✓ Decontamination (Personnel, Material, Building, Field)
 - ✓ Medical Supports & Treatments
 - ✓ Transportation and Disposal of Contaminated Remains and Hazardous & Toxic Wastes
 - AVAILABILITY of CBRN EQUIPMENTS and STOCKPILES
 - WIDER CBRN HAZARD AWARENESS & TRAINING/EXERCISES PROGRAMS for DIFFERENT TARGETED AUDIENCES
 - NATIONAL (GOVT & NON GOVT ORGZ) -REGIONAL-INTERNATIONAL COOPERATION IN RESEARCH, TRAININGS, & EXERCISES



CLOSING



TO BUILD A SUFFICIENT NATIONAL CAPACITY and CAPABILITY FOR RESPONDING TO NATECH (CBRN) DISASTERS WILL TAKE TIMES and REQUIRE PROPER BUDGET ALLOCATIONS and ENDURING SUPPORTs FROM ALL RELATED STAKEHOLDERS

HOWEVER , FAILURE TO DO SO, THOSE EVENTS CAN QUICKLY OVERWHELM THE INFRASTRUCTURE AND CAPABILITY OF THE RESPONDERS AND HAVE THE POTENTIAL TO DESTABILIZE GOVERNMENTS, CREATE CONDITIONS THAT EXACERBATE VIOLENCE OR PROMOTE TERRORISM.

THANK YOU.