GODE for VENEZUELA

LENTE-SALUD

TRACK 3:

PUBLIC HEALTH PROFESSIONALS

TEAM:

ORO AZUL

GOAL:

ACCESSIBLE VISUALIZATION
OF REAL-TIME REPORTING
OF VENEZUELA'S HEALTH

TEAM



JOHANNES GLATZ



SHEETHAL MELNARSE



GONZALO AVILA



JUNE TSENG



FRANCESCO STUMPO GUILLEN



CONTEXT

DATA

GOOGLE FORM

GOOGLE SURVEY



AUDIENCE TARGET



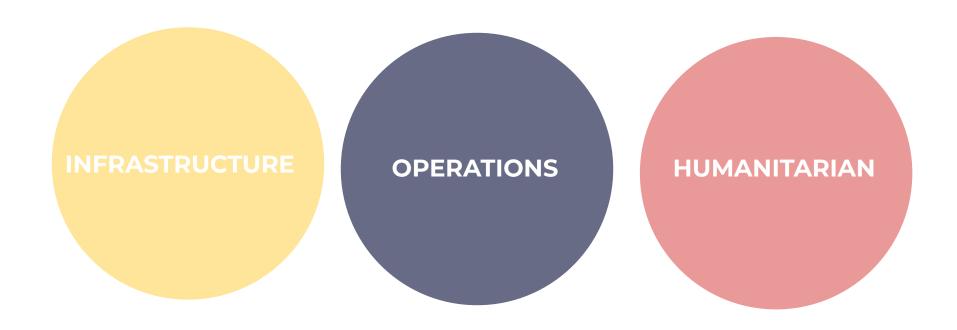


ADMINS

EPIDEMIOLOGISTS.



NEW MATRIX





HUMANITARIAN



CATEGORIES:

Attention Quality Personnel Availability in Emergency

SECTIONS:

er_staff_residents_and_rural_day_on_call
er_staff_specialist_day_on_call
er_staff_mic_day_on_call
er_staff_nurse_day_on_call
er_staff_non_professional_nurse_day_on_call
er_staff_residents_and_rural_night_on_call
er_staff_specialist_night_on_call
er_staff_mic_night_on_call
pneumonia_antibiotic_therapy_latency
mi_thrombolytic_treatment_latency
er_staff_nurse_night_on_call
er_staff_non_professional_nurse_night_on_call



OPERATIONS



CATEGORIES:

Operations
General Operability
Specific Operability
Dialysis
Nutrition

SECTIONS:

operability_icu
operatilids
er_staff_non_professional_nurse_night_on_call
operability_icu_p
rrt_avail_high_flow_catheters
operability_er
operability_sx
operability_lab
operability_uls
operability_ct_mri
operability_xr

er avail adrenalin er_avail_atropine er_avail_dopamine er_avail_cephalosporins_betalactams er_avail_aminoglycosides_quinolone er_avail_vancomycin_clindamycin er avail lidocaine er_avail_minor_opioids er_avail_major_opioids er avail iv fluids er_avail_diazepam_dph er_avail_heparin er avail steroids er avail insulin er avail asthma er_avail_blood_pressure er avail defibrillator er avail ott intubation er avail catheter er_avail_oxygen_suction sx_avail_minor_opioids sx_avail_major_opioids

sx_avail_anesthetic_gases sx avail anesthetics iv sx avail relaxants sx avail ott intubation sx_avail_patient_lingerie_kit sx_avail_disposables_mask_gloves_gown sx_avail_oxygen_suction rrt avail rrt_operability rrt_date_stopped_operability rrt_reason_stopped_operability rrt_avq_daily_patients rrt_peritoneal_count rrt_peritoneal_reason_not_performed rrt_num_hemodialysis rrt_num_hemodialysis_acute rrt_num_hemodialysis_chronic rrt_num_hemodialysis_equipments rrt_num_hemodialysis_equipments_operability rrt_hemodialysis_avail_filter arch beds count rrt_hemodialysis_avail_lines



TRACK 3:
PUBLIC HEALTH PROFESSIONALS
TEAM ORO AZUL

INFRASTRUCTURE

CATEGORIES:

Public Service Mortality Impact Violence and Protests Epidemiology

SECTIONS:

power_outage_equipment_failure_specify power_generator_available power_outage_mortatility power_outage_deaths_count power_outage_equipment_failure power_outage_avg_duration power_outage_days_count power_outage_avg_failures_per_day power_outage epidemiological_emergency_suspected_dis eases staff violence affected reasons strike medical staff affected strike nurses affected strike other staff affected strike_patients_affected strike other affected nCoV face mask avail nCoV_respiratory_isolation_protocol_avail nCoV isolation area avail mortality_hospital_failure_cardiovascular_co unt mortality_hospital_failure_cardiovascular_ca use mortality_hospital_failure_trauma_count mortality_hospital_failure_trauma_cause wahs failure sx wash failure er wash failure icu



CHALLENGE

BUILD A DASHBOARD

DESIGN TOWARDS M.U.I (MAXIMUM USER INTERACTION)

PRESENT VARIABLES & QUESTIONS

CONDUCT DATA ANALYSIS

DATA EXPLORATION

APPROPRIATE STATISTICAL TECHNIQUES

LIVE DASHBOARD

EASY NAVIGATION

MINIMAL EFFORTS



CAVEATS

NOT ALL HOSPITALS ARE REPORTING CONSISTENTLY

VARIABLES HAVE DISCREPANCIES OR CONFLICTING INFORMATION

NO STANDARDIZED INPUTS



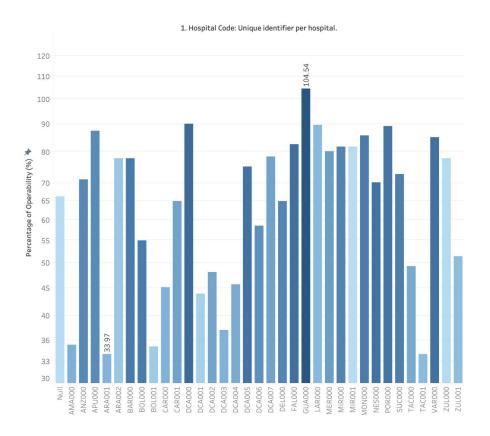
DESIGN STEPS & ARCHITECTURE

PROCESS: AVAILABLE:





DASHBOARD EXAMPLE





APPROACH CRITERIA

DEPLOYABILITY

IN COMPARISON TO
SCHOOL PROJECTS,
BUILD AN ACTUALLY
REAL LIFE DEPLOYABLE /
DEPLOYED PRODUCT,
THAT GIVES ACCESS TO
REAL-TIME DATA

SCALABILITY

RATHER THAN BUILDING
A ONE-TIME PRODUCT,
THAT CANNOT BE
REPRODUCED OR
ACCESSED BY OTHERS,
WE BUILT A LIVE
ACCESSIBLE DATA
LIBRARY, ACCESSIBLE
VIA A LINK!

COMPLETENESS

PROVIDE A FULL-LOOP INFORMATION BACK END



PRODUCT SUCCESS

SOLUTION IS REPRODUCIBLE

CODE IS UPDATED ON-REAL-TIME

