

An Integrated Analysis of Socio-Political Crises through Simulated Proxy Datasets

The Weaponization of Temporality at Qalandia Checkpoint

The Qalandia checkpoint, located between Ramallah and Jerusalem, serves not merely as a physical barrier but as a critical instrument of control, systematically eroding Palestinian time, agency, and mental well-being ⁷⁸. The first simulated dataset, designed for the "Existential Temporality Monitor," translates the profound phenomenological experience of crossing this checkpoint into a series of measurable proxies. These metrics move beyond simple counts of people and vehicles to capture the deeper psychological and social toll of living under a regime of arbitrary temporal disruption. The core concept operationalized here is "occupation time," a term describing the unpredictable expansion and contraction of time experienced by Palestinians due to checkpoint delays, which disrupts daily life, planning, and social cohesion ⁹². This temporal warfare is a deliberate policy tool designed to subordinate Palestinian existence to Israeli-imposed rhythms, creating a state of chronic uncertainty and stress ^{92 105}.

The `Estimated_Wait_Time_Min` field, set at 110 minutes, is a direct quantification of this phenomenon. Research indicates that commuters face highly variable processing speeds, ranging from as low as two individuals per minute during peak hours to periods of complete stagnation ^{92 93}. This unpredictability forces individuals to expend significant cognitive and emotional energy on contingency planning, such as leaving earlier than necessary, staying overnight with relatives near the checkpoint, or abandoning travel plans altogether ⁹³. For those with medical appointments, work, or religious obligations, these delays can have severe consequences, leading to lost wages, missed treatments, and heightened anxiety ^{79 82}. The average wait time of 110 minutes reflects this systemic inefficiency, where the checkpoint functions less as a security gate and more as a tool for psychological subjugation. The study of daily crossings reveals that even with consistent departure times, arrival times at Beit Hanina can vary by as much as an hour, disrupting employment schedules and family life ⁹². This constant

temporal instability makes long-term planning nearly impossible, contributing to a pervasive sense of helplessness and despair among the 26,000 Palestinians who pass through daily⁷⁸.

To navigate this environment of uncertainty, a parallel communication network has emerged, quantified by the Daily_Messages_Count and Incident_Volume_Ratio fields. The simulation sets the daily message count at approximately 155, reflecting a community-wide reliance on real-time updates to mitigate risk and manage expectations. This practice transforms the checkpoint experience from a solitary ordeal into a shared, albeit stressful, communal event. During periods of heightened tension or unexpected closures—an "incident"—the volume of messages doubles or triples, reaching a ratio of 3.1 in the dataset¹. This surge represents a collective spike in anxiety and a desperate search for information, underscoring how checkpoint disruptions immediately reverberate through social networks. The use of social media for real-time updates is a direct response to the trauma of checkpoints, which are themselves identified as a significant contributor to stress, depression, and social media addiction among West Bank youth¹⁰⁵. The high message volume is therefore not just a logistical necessity but a crucial coping mechanism against the psychological onslaught of the checkpoint.

Perhaps the most insightful proxy in this dataset is the Sarcasm_Score, modeled at 0.85. This high score is a powerful indicator of collective distress and the deep-seated feelings of dehumanization experienced at the checkpoint. Qualitative studies with daily crossers reveal the use of metaphors like "thrown objects," "prison," and "blood poisoning" to describe the experience, along with feelings of being treated like animals^{1 78}. Sarcasm, mockery, and fictional captions (such as referring to the crowded, stagnant lines as "Qalandia Lake") are forms of dark humor that serve as a defense mechanism¹. They allow individuals to process and resist the absurdity and cruelty of their treatment without engaging directly with the power dynamics at play. A high sarcasm score, therefore, signals a community under extreme duress, using irony and wit as tools of psychological survival. This aligns with findings that projective drawings made by participants often depict themes of entrapment, anonymity, and inner fragmentation, visually validating the verbal expressions of trauma and helplessness^{78 95}.

Finally, the Anomaly_Flag serves as a technical model for the checkpoint's non-linear, unpredictable nature. Anomalies—defined as extreme delays or psychological intrusions—are not random occurrences but are strategically

deployed tactics ¹. These can include sudden, unannounced closures of the checkpoint, prolonged and humiliating inspections, or soldiers' moods dictating the pace of processing ^{78 93}. Such anomalies are used to instill fear, assert arbitrary power, and disrupt critical aspects of daily life, including access to healthcare, education, and religious sites like Al-Aqsa Mosque ^{79 82}. By flagging these events, the dataset allows for the identification of policy-driven disruptions versus routine delays. This distinction is crucial for understanding that the checkpoint's function extends far beyond border security; it is an active agent in shaping Palestinian lives, identities, and futures through the calculated manipulation of time itself. The combination of these five fields provides a comprehensive, multi-dimensional view of the checkpoint as a site of existential struggle, where every passing moment is a contested space.

Field Name	Example Value	Source/Context Justification
Date	2025-05-15	Time-series data is essential for rhythm analysis. ¹
Time_Window	06:00 - 08:00 (Morning Rush)	Reflects periods of high commuting activity. ⁷⁸
Daily_Messages_Count	155	Simulates the ~150 messages exchanged daily for real-time updates. ¹⁰⁵
Incident_Volume_Ratio	3.1	Represents volume increase during incidents (messages doubled or tripled during an incident). ¹
Sarcasm_Score	0.85	Quantifies the level of collective distress signaled by terms like "Qalandia Lake" or fictional recreation captions. ^{1 95}
Estimated_Wait_Time_Min	110	Reflects the time loss, which if averaged to one hour daily, totals 2.5 years over 60 years. ^{78 93}
Anomaly_Flag	1	Flag indicating extreme delay or psychological intrusion (1=Yes). ^{79 82}

Economic Attrition and Structural Fragility in East Jerusalem

The second dataset, focusing on East Jerusalem's souvenir cluster, provides a granular yet powerful lens through which to analyze the effects of spatial control and political instability on a local economy. It moves beyond macroeconomic statistics to examine the structural fragility of micro-enterprises that form the backbone of cultural and economic life in a contested urban center. The central theme is "administrative attrition," a process whereby the very administrative and physical structures of the occupation systematically erode the viability of

Palestinian-owned businesses. This attrition is not accidental but is a consequence of policies that simultaneously isolate East Jerusalem economically and politically, creating a fragile ecosystem where enterprises cannot survive without direct intervention.

The dataset identifies the most vulnerable segment as Struggling Independents, a group characterized by generational ownership and deeply embedded in the local community. The Shop_Age_Years field, set at 35, reflects the reality of a "Gerontocracy of Ownership" where many shops have been operated by families for decades⁶¹. This long-standing presence makes them particularly susceptible to rapid changes in the economic environment, such as the catastrophic collapse of tourism following October 2023^{63 64}. Official assessments indicate that 90% of shops in the Old City rely on tourism, a sector now decimated by Israeli restrictions on movement and the overall conflict^{65 67}. The closure rate of shops reached 90%, impacting hundreds of families, demonstrating the profound economic shock to this dependent sector⁶⁵. These businesses are not just commercial entities; they are repositories of heritage and identity, making their decline a blow to both the local economy and cultural fabric.

The financial precarity of these shop owners is starkly quantified by the Monthly_Income_Category and Job_Creation_Activity fields. With incomes categorized as being at or below NIS 6000, a threshold placing them near or below the poverty line, these enterprises exist in a state of subsistence⁶¹. This income level, reported by 63.8% of owners, is insufficient for long-term investment or resilience⁶¹. Compounding this is the low capacity for job creation, reflected in a mean rank of 1.36. This indicates that these small businesses are unable to generate employment opportunities for others, trapping the local workforce in a cycle of low-wage dependency. The situation is exacerbated by the fact that many Palestinian residents have shifted their purchasing habits to larger cities in the West Bank, like Ramallah, due to rigid Israeli restrictions on access to Jerusalem^{64 66}. This migration of consumer spending further shrinks the already limited customer base for Old City merchants, creating a downward spiral of declining sales and increasing closures⁶⁷.

The dataset also captures the dual pressures of market volatility and institutional failure through the Raw_Materials_Price_Increase and PNA_Trust_Score fields. A mean rank of 3.23 for raw material costs illustrates the squeeze on profit margins, while a low trust score of 1.27 signifies a deep skepticism towards Palestinian Authority (PNA) initiatives⁶¹. This low trust is a critical variable for

predicting the success of any proposed governmental support programs; if businesses believe interventions will be ineffective or delayed, they are unlikely to invest or change their practices. This distrust is not unfounded, given the broader economic crisis affecting all sectors of the West Bank, where 98.8% of enterprises report being negatively impacted by the war⁴⁶. The inability of institutions to provide reliable support leaves these micro-enterprises feeling abandoned and vulnerable to external shocks.

The most actionable insight from the dataset is encapsulated in the Grants_Recommended_Threshold flag, which is set to 1. This field operationalizes the finding that traditional financial instruments like loans are largely ineffective in this context. Due to the extreme uncertainty and high risk, banks are unwilling to lend, and businesses are too precarious to take on debt. Therefore, survival depends on direct, unconditional financial aid (grants) that can cover fixed costs such as rent and utilities. This conclusion is supported by the severe economic downturn affecting all sectors^{45 46}. Any meaningful intervention must therefore be multi-faceted. It requires immediate relief via grants (Grants_Recommended_Threshold) to prevent total collapse, combined with longer-term strategies to rebuild consumer markets. Initiatives like the UNDP/PAPP project, which trains merchants in digital marketing and e-commerce, represent a promising approach to counter declining tourism and enable access to global markets⁶⁵. Ultimately, however, lasting economic resilience in East Jerusalem is impossible without addressing the root causes of isolation—the separation wall, permit regimes, and the demolition of infrastructure—which physically fragment the city and sever its economic ties^{66 67}.

Field Name	Example Value	Source/Context Justification
Shop_ID	145	Sample unit derived from the study's target population of 371 souvenir shops. ⁶¹
Cluster_Group	Struggling Independents	One of the three identified clusters in the souvenir sector. ⁶¹
Shop_Age_Years	35	Reflects the Gerontocracy of Ownership where over 55% of shops operated for more than 30 years. ⁶¹
Monthly_Income_Category	NIS ≤ 6000	63.8% of owners reported net income below this threshold, placing them near or below the poverty line. ⁶¹
Raw_Materials_Price_Increase	Float (Mean Rank)	3.23
PNA_Trust_Score	Float (Mean Rank)	1.27
Job_Creation_Activity	Float (Mean Rank)	1.36
Grants_Recommended_Threshold	Boolean (0/1)	1

The Looming Demographic Crisis of a Youth Bulge

The third dataset shifts the analytical focus from the present realities of occupation to the future, framing the conflict as a dynamic, forward-looking crisis driven by powerful demographic trends. It connects population growth directly to labor market pressures and social stability, arguing that Palestine faces a potential "disastrous situation" where a rapidly expanding youth population will far outstrip the capacity of the economy to absorb new entrants ⁷⁷. This demographic time bomb is a central feature of the occupation's long-term strategy, as prolonged constraints on economic development ensure that a growing generation will be denied opportunities, fueling despair and social unrest.

The foundation of this crisis is the explosive population growth projected across the Palestinian territories. The UN projects that the State of Palestine's population will double to 9.5 million by 2050, with the highest growth concentrated in Gaza, which is expected to see its population increase from 1.85 million to 4.7 million in the same period ^{75 77}. This rapid increase, coupled with a high fertility rate of approximately 3.3 children per woman, creates an immense demand for resources, housing, and employment ⁷⁴. The sheer scale of this demographic shift means that even modest economic growth is insufficient to meet the needs of new labor market entrants. To maintain current unemployment levels, the territories will need to create 1 million new jobs by 2030 ⁷⁵. However, the baseline unemployment rate was already 26% in 2015, highlighting the pre-existing weakness of the labor market ⁷⁷.

The dataset quantifies the immense pressure on the labor market through the New_Entrants_15_24_Thousands field, which projects 395,000 new individuals entering the labor force in 2035 alone ⁷⁴. This cohort must be absorbed by an economy that struggles to create enough jobs for existing workers. The challenge is particularly acute in Gaza, which prior to the recent conflict already had the world's highest youth unemployment rate, exceeding 60% ⁷³. This is part of a broader regional pattern; the MENA region has a youth unemployment rate of 24.4%, nearly double the global average of 13.0% ⁷¹. The Palestinian context is therefore an extreme case within an already challenging landscape. The combination of a large, youthful population and a weak, constrained economy creates a volatile mix where frustration and hopelessness can easily translate into social and political instability.

Compounding the problem of unemployment is the issue of underemployment and poor quality of jobs. Even when young people find work, it is often in low-

productivity, non-tradable services with informal arrangements and wages below the minimum⁷². This is exacerbated by a mismatch between educational attainment and labor market needs, a phenomenon known as "graduation unemployment" that discourages further education and reduces earnings potential⁷⁶. The economic structure is dominated by the private sector, with only a fraction of jobs created annually being in tradable services or high-growth sectors⁷². Without transformative reforms to facilitate private sector job creation in productive industries, the demographic dividend—a potential boost to GDP from a working-age majority—is destined to become a demographic disaster, characterized by wasted human capital and widespread discontent.

In this context of economic desperation, emigration becomes a primary coping mechanism. The dataset's Emigrant_Family_Support_Daily_Needs_Pct field, set at 83.5%, reveals the critical importance of remittances for household survival⁷⁴. However, this figure underscores the severity of the crisis: the vast majority of migrant income is consumed by basic necessities back home, indicating that even successful migrants are unable to fundamentally alter the economic reality for their families. Emigration is not a sign of prosperity but a desperate strategy to survive. The data suggests that achieving sustainable economic growth of 6% or higher would be necessary to meaningfully reduce unemployment and absorb the entire new labor supply⁷². Furthermore, unlocking the potential of women, whose labor force participation is extremely low, could significantly boost GDP and absorb a substantial portion of the new entrants, but this requires overcoming deep-seated patriarchal norms and legal barriers⁷². Without urgent and transformative interventions to create millions of quality jobs and address gender inequality, the demographic trajectory of Palestine points toward a future defined by persistent poverty, exclusion, and a lost generation.

Field Name	Example Value	Source/Context Justification
Year	2035	Projections cover the period 2015–2050. ⁷⁴
Total_Population_Thousands	4,010	Population of Palestine (Males+Females) in 2035 using the medium variant projection. ⁷⁴
New_Entrants_15_24_Thousands	395	Projected population of the 20-24 age group in 2035 (395k total), representing labor force accessions. ⁷⁴
Required_New_Jobs_Annual_k	70	Proxy for the high pressure on the labor market due to increasing accessions. ⁷⁵
Unemployment_Rate_Overall	28.6%	Reflects the high historical unemployment average (25.72% Q2 2002 to Q2 2025). ⁷⁴
Unemployment_Journalism_Rate	53.8%	Specific example of extremely high unemployment in certain fields of education in 2015. ⁷⁴
Emigrant_Family_Support_Daily_Needs_Pct	83.5%	Reflects how emigrants' money transfers are used, primarily for daily needs. ⁷⁴

Quantifying the Cascading Collapse in the Gaza Strip

The fourth dataset provides a stark, undeniable picture of a society collapsing under the weight of siege and conflict, moving from potential future crises to the present, acute catastrophe unfolding in the Gaza Strip. It uses official humanitarian indicators to quantify the multifaceted collapse of essential services, creating a clear and alarming narrative of societal disintegration. The core insight is that the humanitarian situation in Gaza is not a collection of disparate problems but a cascading crisis where the destruction of one system (e.g., agriculture) leads to the failure of another (e.g., nutrition), culminating in a confirmed famine and a public health emergency of biblical proportions.

The most devastating metric in the dataset is the Acute_Food_Insecurity_Phase_4_5_Pct, set at 100%. This figure indicates that the entire Gaza Strip is classified in IPC Phase 4 (Emergency) or worse, meaning that 1.84 million people are experiencing Crisis or Catastrophe-level food insecurity^{28 33}. This is corroborated by multiple sources confirming that two out of three core famine thresholds have been breached, with over half a million people facing widespread starvation and destitution^{36 39}. The monthly malnutrition screening data provides a chilling confirmation of this trend, showing a direct correlation between aid availability and child survival rates. When aid access was

relatively available, acute malnutrition rates among children were around 6%; after tight aid restrictions in late 2024, the rate rose to 14%; and following an 11-week total siege in early 2025, it surged to nearly 16%, with some governorates reaching nearly 30%⁸⁴. This demonstrates a predictable and reversible cause-and-effect relationship: the weaponization of aid is a direct driver of mass starvation.

This food insecurity has triggered a public health catastrophe, vividly illustrated by the Child_Acute_Malnutrition_M and Women_Malnourished_M fields. The figures are staggering: an estimated 60,000 children under five are acutely malnourished, with 12,000 suffering from severe acute malnutrition, and 16,500 pregnant and breastfeeding women require treatment^{33 41}. These rates are ten times higher than pre-conflict levels²⁸. The collapse of the health system means that even when children are identified as malnourished, therapeutic foods are critically low, and hospitals are overwhelmed and under-resourced^{39 43}. Testimonies from nurses describe children arriving in a state of extreme wasting, with hair loss and a high risk of death⁴⁰. The destruction of 70% of crop fields and the collapse of the WASH (Water, Sanitation, and Hygiene) systems further exacerbate the crisis, creating a deadly cycle where malnutrition and disease lead to increased mortality^{28 48}.

The economic annihilation of Gaza is equally profound, captured by the Real_GDP_Dcline_Pct field. The territory's economy contracted by 83% in 2024, with the share of Gaza's economy in the total Palestinian economy plummeting from 16.7% pre-war to just 4.1%⁴⁶. This is not merely a statistic; it represents the complete destruction of livelihoods. Hyperinflationary price increases, with food prices soaring 448% year-on-year, have rendered wages worthless for most people⁴⁴. The destruction of over 80% of commercial establishments and the collapse of the construction and industrial sectors have left millions unemployed^{44 46}. The Cereal_Import_Dependency_Ratio of 95.8% highlights Gaza's extreme vulnerability to external control. Its ability to feed itself has been systematically destroyed, making it utterly reliant on imported goods and aid, which are now being actively weaponized through blockades^{48 80}. This perpetual dependence is a central feature of the occupation's strategy, ensuring that Gaza remains a captive market controlled from the outside.

The dataset paints a picture of a society on the brink of total collapse, where every essential service has failed. The Human Development Index for Gaza is projected to drop to 0.408 by the end of 2024, erasing over 20 years of progress⁸³. The cumulative damage to Gaza's built infrastructure is estimated at US\$29.9 billion,

nearly twice the pre-conflict real GDP of the entire Palestinian territories⁷⁰. With 92% of housing units damaged or destroyed and over 1.2 million people homeless, the physical foundations of society have been shattered³⁹. The raw material provided by this dataset is ideal for building a predictive model of societal collapse. Key inputs would include aid truck entry numbers, ceasefire duration, and intensity of military operations. The outputs would be projections of malnutrition rates, mortality, and displacement. The clear causal link between aid access and child survival rates makes this a highly predictable relationship, providing a grim but necessary basis for humanitarian forecasting and advocacy^{40 84}.

Field Name	Example Value	Source/Context Justification
Reporting_Period	Q1 2025	Data reflects volatile conditions post-October 2023.
Region	Gaza Strip	Gaza faces the most acute crisis.
Acute_Food_Insecurity_Phase_4_5_Pct	100%	100% of the Gaza Strip faces acute food insecurity. ²⁸
Child_Acute_Malnutrition_M	0.06	Number of children (6-59 months) with acute malnutrition in Gaza Strip in 2024 (0.06M). ²⁸
Women_Malnourished_M	0.02	Number of pregnant and breastfeeding women with acute malnutrition in Gaza Strip in 2024 (0.02M). ²⁸
Real_GDP_Decline_Pct	35%	Overall Palestinian territories saw a 35 percent decline in real GDP in Q1 2024. ⁴⁶
Cereal_Import_Dependency_Ratio	Float	95.8

Digital Mobilization and Data Governance in Regional Social Unrest

The fifth dataset introduces a transnational dimension, focusing on Morocco's Gen Z protests as a case study in modern social mobilization and the ethical challenges of data collection. It serves as a crucial counterpoint to the more constrained Palestinian context, illustrating a different dynamic where digital tools are leveraged for activism. The central insight is that while digital platforms empower activists, they also place them in direct confrontation with national data protection laws, highlighting a universal tension between freedom of expression, surveillance, and governance.

The dataset effectively models the conditions that can ignite social unrest, using variables like Fuel_Price_Index_Change_Pct (+12.5%) and Sentiment_Anger_NLP_Score (0.88) ¹⁶. The Moroccan protests were not spontaneous; they were sparked by tangible grievances rooted in economic hardship and perceived government corruption ²¹. High youth unemployment (35.8%), the deterioration of public services like healthcare and education, and a perceived misallocation of public funds toward mega-sporting events like the 2030 FIFA World Cup created a fertile ground for dissent ^{16 17}. The death of eight women in childbirth at a public hospital in Agadir served as the catalyst, crystallizing widespread anger over systemic failures ^{19 21}. The Fuel_Price_Index_Change_Pct proxy reflects how seemingly minor economic shocks can act as triggers for larger movements, while the Sentiment_Anger_NLP_Score attempts to quantify the underlying public mood, which can be monitored using Natural Language Processing (NLP) techniques on social media platforms.

The power of decentralized digital networks is demonstrated by the Moroccan movement's use of platforms like Discord, TikTok, and Instagram ^{16 21}. The GenZ212 movement organized itself leaderlessly, avoiding alignment with traditional political parties or civil society groups ²⁴. The rapid growth of their Discord server—from fewer than 1,000 members to around 250,000 in a matter of weeks—showcases the viral potential of these tools for organizing protests and disseminating information ¹⁶. This contrasts sharply with the heavy-handed repression seen in Morocco, where the government responded with lethal force and arrested nearly 1,000 protesters, charging them with incitement to commit felonies and armed rebellion ^{20 25}. The use of decentralized, pseudonymous platforms allowed organizers to evade authorities initially, but it did not protect them from subsequent crackdowns ¹⁶. This provides a complex lesson for digital activism: while technology can facilitate coordination and amplify voices, it does not inherently confer immunity from state power.

The most novel element of this dataset is its inclusion of the Compliance_Status and Mitigation_Required fields, which bring the ethical and legal dimensions of data governance into sharp focus. Morocco possesses a sophisticated data protection law, Law No. 09-08, enacted in 2009 and enforced by the National Commission for the Protection of Personal Data (CNDP) ^{49 52}. This law establishes a robust framework for protecting individual privacy, mirroring principles found in the EU's GDPR ^{50 54}. The dataset correctly identifies that any attempt to build an early warning system via NLP on social media is not purely a technical exercise; it is

deeply embedded in a legal and ethical framework. The Data_Type_Audited field, which specifies a sensitive type like Mobile Location Data, necessitates strict compliance with the law ⁵³. This includes requirements for transparency, consent, and implementing appropriate security measures to protect personal data ^{55 57}.

Consequently, the Mitigation_Required flag is set to 1, signaling the need for privacy-preserving techniques when handling such sensitive data. These could include anonymization, federated learning, or other methods that minimize the exposure of personally identifiable information ⁵³. The existence of a comprehensive legal framework like Law 09-08 complicates the task of building an AI-driven monitoring system. Unlike in jurisdictions with weaker regulations, developers in Morocco cannot simply scrape public data without considering the rights of individuals. This adds a layer of complexity and realism to the workshop's AI governance challenge. It forces students to confront the ethical dilemma head-on: does monitoring public sentiment for a "social volatility index" constitute a violation of privacy under a law like Morocco's? The answer is not straightforward and requires careful consideration of proportionality, necessity, and the potential for misuse, whether by the state or other actors. This dataset thus provides a vital comparative case study, prompting a nuanced discussion about the responsibilities that accompany the power of data science.

Field Name	Example Value	Source/Context Justification
Date	2025-08-15	Time-series data is needed to correlate sentiment and price spikes. ¹⁶
Region	Casablanca (Morocco)	Urban centers are key sites for monitoring protests. ¹⁶
Fuel_Price_Index_Change_Pct	+12.5%	Fuel price changes are key triggers for social tensions. ¹⁶
Sentiment_Anger_NLP_Score	Float (0 to 1)	0.88
Healthcare_Failure_NLP_Score	Float (0 to 1)	0.72
Data_Type_Audited	Categorical	Mobile Location Data (CDR)
Compliance_Status	String	Morocco Law 09-08 (Compliant)
Mitigation_Required	Boolean (0/1)	1

Synthesis: An Interconnected System of Control and Resistance

The analysis of these five simulated datasets, while appearing as discrete modules, reveals a powerful, integrated framework for understanding a complex system of interconnected crises. This system is characterized by the deliberate weaponization of time, space, and information to exert control over Palestinian society, a strategy that manifests differently in various contexts but shares a common logic of subjugation. The true value of this exercise lies in its ability to translate abstract geopolitical realities into quantifiable metrics, enabling a holistic model of oppression and resilience. The ultimate goal is to move beyond descriptive dashboards to predictive modeling and evidence-based policy recommendations that address the root causes of these intertwined crises.

The interconnectedness of these crises is evident throughout the analysis. The economic strangulation of Gaza, quantified in Dataset 4, directly contributes to the demographic pressures described in Dataset 3. The complete collapse of Gaza's economy, with a projected 83% GDP contraction, eliminates any possibility of absorbing the territory's massive youth population, pushing unemployment to catastrophic levels ^{44 46}. This economic ruin fuels the desperate coping mechanism of emigration, which in turn affects the entire Occupied Palestinian Territory ⁷⁴. Similarly, the physical violence and movement restrictions detailed in Dataset 1—the systematic disruption of time and space at checkpoints—create the precise conditions of precarity seen in Dataset 2. The collapse of tourism in East Jerusalem is a direct consequence of the same mobility constraints that inflict "occupation time" on commuters in the West Bank ^{67 92}. The resulting economic desperation in the souvenir sector makes it structurally fragile, unable to withstand shocks without external support ⁶¹. The resulting social and economic breakdown is a primary driver of the kind of social unrest modeled in Dataset 5, as communities pushed to the brink of survival seek alternative avenues for expression and change.

From this integrated perspective, several actionable policy recommendations emerge. For policymakers, the Demographic Projections dataset provides an urgent argument for large-scale investment in tradable sectors and infrastructure in Gaza and the West Bank. The data shows that achieving GDP growth rates of 6% or higher is necessary to meaningfully reduce unemployment and prevent a lost generation ⁷². For Non-Governmental Organizations (NGOs), the Souvenir Shop dataset offers a precise targeting mechanism. Instead of broad-based aid, organizations can leverage the Grants_Recommended_Threshold to deliver direct

financial assistance to the most vulnerable micro-enterprises identified as Struggling Independents, thereby preventing total collapse and preserving cultural heritage⁶¹. For technologists and humanitarian organizations, a predictive model could be built correlating Checkpoint Incident Volume and Sarcasm Score with subsequent spikes in protest activity or hospital admissions for stress-related illness, providing an early warning system to anticipate and respond to emerging crises^{1 105}.

However, this analytical framework is not without its limitations and unresolved ethical challenges. The datasets, while rich, are still simulated proxies and may lack the hyper-local granularity needed to capture nuances within specific communities. Furthermore, the reliance on social media data, as modeled in Dataset 5, is subject to significant bias. Training NLP models on Moroccan Darija and Modern Standard Arabic (MSA) requires specialized linguistic expertise, and algorithms can struggle with cultural context and sarcasm, potentially misinterpreting sentiment^{6 98}. The most significant challenge remains the ethical boundary of data collection. While the Moroccan dataset rightly flags the need for mitigation techniques under Law 09-08, the broader question persists: who owns the data collected from public platforms? How can we ensure that monitoring public sentiment does not become a tool for state repression, a risk that exists even in democratic societies⁵³?

In conclusion, the user's initial plan for five datasets provides a remarkably insightful starting point for a deep research workshop. My analysis has demonstrated how each dataset is a window into a different facet of a systemic crisis. By synthesizing these windows, we can construct a holistic model of the socio-political and economic dynamics at play. This integrated view transforms a classroom exercise into a powerful tool for generating profound, evidence-based insights, capable of informing policy, guiding humanitarian action, and fostering a deeper understanding of the complex realities faced by the people of the region.

Reference

1. (PDF) Perspectives on Social Suffering in Interviews and ... https://www.researchgate.net/publication/395112361_Perspectives_on_Social_Suffering_in_Interviews_and_Drawings_of_P

[alestinian_Adults_Crossing_the_Qalandia_Checkpoint_A_Qualitative_Phenomenological_Study](#)

- 2. Checkpoints, competing 'sovereignties', and everyday life ...** <https://www.sciencedirect.com/science/article/pii/S0962629824001690>
- 3. Social Isolation and Repertoires of Resistance** <https://www.cambridge.org/core/journals/american-political-science-review/article/social-isolation-and-repertoires-of-resistance/1EF4EB2D4FCB1001D6659798F1CC4A20>
- 4. Palestinian Agency and Gendered Embodiment at Israeli ...** <https://www.journals.uchicago.edu/doi/full/10.1086/699906>
- 5. Scrolling Social Media Sentiments on the Gaza War** <https://www.thecairoreview.com/essays/scrolling-social-media-sentiments-on-the-gaza-war/>
- 6. Sentiment analysis of the Hamas-Israel war on YouTube ...** <https://www.nature.com/articles/s41598-024-63367-3>
- 7. A Social Network Analysis of pro-Palestinian Activism** <https://www.arabmediasociety.com/tweeting-solidarity-across-borders-a-social-network-analysis-of-pro-palestinian-activism/>
- 8. Public Sentiment Analysis of the Israel-Palestine Conflict ...** https://www.researchgate.net/publication/385160808_Public_Sentiment_Analysis_of_the_Israel-Palestine_Conflict_on_Social_Media_Using_BERT
- 9. Analysing the Palestinian narrative post-7 October 2023 ...** https://intellectdiscover.com/content/journals/10.1386/jammr_00098_1
- 10. Social Media and Public Opinion in Times of Conflict** <https://fount.aucegypt.edu/cgi/viewcontent.cgi?article=3626&context=etds>
- 11. How Does Palestinian Digital Security End at First Israeli ...** <https://sada.social/storage/app/media/a-soldier-tracing-your-phone-how-does-palestinian-digital-security-end-at-first-israeli-checkpoint-in-the-west-bank.pdf>
- 12. Digital Security Among Palestinian Youth** [https://7amleh.org/storage/august%20papers%202024/Digital%20Security%202019.8%20\(1\).pdf](https://7amleh.org/storage/august%20papers%202024/Digital%20Security%202019.8%20(1).pdf)
- 13. Nowhere to hide: The impact of Israel's digital surveillance ...** <https://www.mei.edu/publications/nowhere-hide-impact-israels-digital-surveillance-regime-palestinians>
- 14. Temporalities and perceptions of the separation between ...** <https://journals.openedition.org/bcrfj/6319>
- 15. Slow urbicide: Accounting for the shifting temporalities of ...** <https://www.sciencedirect.com/science/article/pii/S0016718522000896>

- 16. 2025 Moroccan Gen Z protests** https://en.wikipedia.org/wiki/2025_Moroccan_Gen_Z_protests
- 17. Morocco: Protests Met with Repression, Violence** <https://www.hrw.org/news/2025/10/15/morocco-protests-met-with-repression-violence>
- 18. Anti-government protests in Morocco turn deadly, with 2 ...** <https://www.npr.org/2025/10/02/g-s1-91601/anti-government-protests-morocco>
- 19. Morocco's Gen Z Protests – A Fight for Human Rights** <https://sites.uab.edu/humanrights/2025/10/30/moroccos-gen-z-protests-a-fight-for-human-rights/>
- 20. Morocco charges more than 2400 people over Gen Z protests** <https://edition.cnn.com/2025/10/29/world/morocco-charged-over-2400-gen-z-protests-latam-intl>
- 21. Youth-led unrest exposes cracks in Morocco's economic ...** <https://www.reuters.com/world/africa/youth-led-unrest-exposes-cracks-moroccos-economic-model-2025-10-06/>
- 22. Four questions (and expert answers) about the ...** <https://www.atlanticcouncil.org/blogs/new-atlanticist/four-questions-and-expert-answers-about-the-antigovernment-protests-in-morocco/>
- 23. Unpacking the New Wave of Gen Z Protests** <https://www.arab-reform.net/event/unpacking-the-new-wave-of-gen-z-protests-placing-morocco-in-a-global-context/>
- 24. Understanding Morocco's GenZ Uprising** <https://carnegieendowment.org/middle-east/diwan/2025/10/moroccos-genz-uprising?lang=en>
- 25. Morocco charges more than 2400 people over Gen Z protests** <https://www.youtube.com/watch?v=DXV2Bz5Hz54>
- 26. Gaza Strip: Acute Food Insecurity Situation for 1 May** <https://www.ipcinfo.org/ipc-country-analysis/details-map/en/c/1157065/>
- 27. GAZA STRIP: Famine is imminent as 1.1 million people, ...** <https://www.ipcinfo.org/ipcinfo-website/alerts-archive/issue-97/en/>
- 28. Gaza Strip: Acute Food Insecurity and Acute Malnutrition** <https://www.un.org/unispal/document/gaza-strip-ipc-report-sep24-apr25/>
- 29. FEWS NET: HOME** <https://fews.net/>
- 30. IPC Famine Review Committee Alert Gaza Strip (Published ...** <https://reliefweb.int/report/occupied-palestinian-territory/ipc-famine-review-committee-alert-gaza-strip-published-8-november-2024>
- 31. Briefing on Risk of Famine in Northern Gaza : What's In Blue** <https://www.securitycouncilreport.org/whatsinblue/2024/11/briefing-on-risk-of-famine-in-northern-gaza.php>

- 32. New Gaza food security assessment sees famine risk ...** <https://www.wfp.org/news/new-gaza-food-security-assessment-sees-famine-risk-persisting-amid-ongoing-fighting-and>
- 33. IPC Global Initiative - Special Snapshot** https://www.un.org/unispal/wp-content/uploads/2024/10/IPC_Gaza_Strip_Acute_Food_Insecurity_Malnutrition_Sep2024_Apr2025_Special_Snapshot.pdf
- 34. GAZA STRIP: IPC Acute Food Insecurity Special Snapshot** <https://sdg2advocacyhub.org/latest/gaza-strip-ipc-acute-food-insecurity-special-snapshot/>
- 35. Joint Child Malnutrition Estimates (JME) 2025** <https://data.unicef.org/resources/jme/>
- 36. Malnutrition | UNICEF State of Palestine** <https://www.unicef.org/sop/topics/malnutrition>
- 37. UNICEF: State of Palestine Humanitarian Situation Report ...** <https://www.un.org/unispal/document/unicef-sitrep-midyear-19jul25/>
- 38. UNICEF State of Palestine Humanitarian Situation Report ...** <https://reliefweb.int/report/occupied-palestinian-territory/unicef-state-palestine-humanitarian-situation-report-no-43-30-september-2025>
- 39. UNRWA Situation Report #182 on the Humanitarian Crisis ...** <https://www.unrwa.org/resources/reports/unrwa-situation-report-182-situation-gaza-strip-and-west-bank-including-east-jerusalem>
- 40. EN-Gaza-Acute-Malnutrition-report- ...** <https://www.medecinsdumonde.org/app/uploads/2025/05/EN-Gaza-Acute-Malnutrition-report-final.pdf>
- 41. Humanitarian Situation Report No. 42** <https://www.unicef.org/media/174306/file/SOP-Humanitarian-SitRep-31-August-2025.pdf.pdf>
- 42. Levels and trends in child malnutrition: UNICEF/WHO ...** <https://www.who.int/publications/i/item/9789240112308>
- 43. Children Are Dying as Famine Conditions Deepen in Gaza** <https://www.unicefusa.org/stories/children-are-dying-famine-conditions-deepen-gaza>
- 44. Gaza and West Bank Interim Rapid Damage and Needs ...** <https://thedocs.worldbank.org/en/doc/133c3304e29086819c1119fe8e85366b-0280012025/original/Gaza-RDNA-final-med.pdf>
- 45. Economic costs of the Israeli occupation for the Palestinian ...** https://unctad.org/system/files/official-document/a_80_356_en.pdf

46. ► **Impact of the war in Gaza on the labour market ...** https://www.ilo.org/sites/default/files/2024-06/Bulletin%204_OPT%20LM%20Impact_ILO-PCBS-June%202024%20Final%20version.pdf
47. **Gaza war: Expected socioeconomic impacts on the State of ...** <https://reliefweb.int/report/occupied-palestinian-territory/gaza-war-expected-socioeconomic-impacts-state-palestine-october-2024-enar>
48. **IMPACTS OF THE CONFLICT IN THE MIDDLE EAST ON ...** <https://thedocs.worldbank.org/en/doc/88b250e19a55174787bafafdf5322360e-0280012025/original/Palestinian-Economic-Update-Sept2025-FINAL.pdf>
49. **Law No. 09-08 on the protection of individuals with regard ...** <https://www.dgssi.gov.ma/en/loi-09-08-relative-la-protection-des-personnes-physiques-legard-du-traitement-des>
50. **Moroccan data protection law: Moving to align with EU ...** <https://iapp.org/news/a/moroccan-data-protection-law-moving-to-align-with-eu-data-protection>
51. **Data protection laws in Morocco** <https://www.dlapiperdataprotection.com/index.html?t=law&c=MA>
52. **Flash info Morocco | Scope of Data Protection Legislation ...** <https://cms.law/en/fra/publication/flash-info-morocco-scope-of-data-protection-legislation-in-morocco-law-n-09-08>
53. **Data Protection & Privacy Law and Practice in Morocco** <https://practiceguides.chambers.com/practice-guides/comparison/932/15612/24360-24367-24371-24376-24381>
54. **Law No. 09-08, Data Privacy for Moroccan Citizens** <https://caseguard.com/articles/law-no-09-08-data-privacy-for-morocco-citizens/>
55. **Privacy Policy** <https://www.mre.gov.ma/en/politique-de-confidentialite-loi-0908rgpd>
56. **morocco - data protection & cyber security law** <https://www.legal500.com/guides/wp-content/uploads/sites/1/2022/05/morocco-1.pdf>
57. **Moroccan Personal Data Protection Law Guide** <https://globalprivacylaws.com/laws/pdp-morocco/>
58. **Occupation, Inc.: How Settlement Businesses Contribute ...** <https://www.hrw.org/report/2016/01/19/occupation-inc/how-settlement-businesses-contribute-israels-violations>
59. **Israeli Surveillance & Restrictions on Palestinian Movement** <https://imeu.org/resources/key-issues/fact-sheet-israeli-surveillance-restrictions-on-palestinian-movement/128>

- 60. Think Twice: Can companies do business with Israeli ...** <https://www.amnesty.org.uk/files/2019-03/Think%20Twice%20report.pdf?BrN9N0VX3RkzTJROuKYC46LE43hCPtTu=>
- 61. Understanding Jewish and Palestinian Equality in Israel - Part ...** <https://blogs.timesofisrael.com/understanding-jewish-and-palestinian-equality-in-israel-part-xii/>
- 62. A Policy of Discrimination: Land Expropriation, Planning ...** https://www.btselem.org/publications/summaries/199505_policy_of_discrimination
- 63. Jerusalem's Old City Economy Is in Shambles** <https://www.jerusalemstory.com/en/blog/jerusalems-old-city-economy-shambles>
- 64. In Jerusalem's Old City, fallout from the Gaza war deepens the ...** <https://www.thenationalnews.com/news/mena/2025/09/07/in-jerusalems-old-city-fallout-from-the-gaza-war-deepens-the-woes-of-israels-occupation/>
- 65. Navigating the socio-economic resilience journey in ...** <https://www.undp.org/arab-states/stories/navigating-socio-economic-resilience-journey-jerusalem-old-city>
- 66. Economic mapping of East Jerusalem** https://mas.ps/cached_uploads/download/migrated_files/summary-20-20east-20jerusalem-1640017236.pdf
- 67. Limitations and Obstruction to Development of Markets** <https://palvision.ps/wp-content/uploads/2022/12/Factsheet-Reduced.pdf>
- 68. Impact of the War on Gaza on East Jerusalem with a ... - IPCC** <https://ipcc-jerusalem.org/en/1/11/498/Impact-of-the-War-on-Gaza-on-East-Jerusalem-with-a-focus-on-the-Old-city.htm>
- 69. Unemployment, youth total (% of total labor force ages 15- ...** <https://data.worldbank.org/indicator/SL.UEM.1524.ZS>
- 70. West Bank and Gaza** <https://documents1.worldbank.org/curated/en/099061125101529564/pdf/P500604-64aeba13-ba2a-4b7d-a07b-5f7ecd93cb39.pdf>
- 71. Global Employment Trends for Youth 2024 Middle East ...** <https://www.ilo.org/media/583631/download>
- 72. West Bank and Gaza: Selected Issues; April 14, 2023** <https://www.imf.org/-/media/Files/Publications/CR/2023/English/1WBGEA2023002.ashx>
- 73. Gaza Economy on the Verge of Collapse, Youth ...** <https://www.worldbank.org/en/news/press-release/2015/05/21/gaza-economy-on-the-verge-of-collapse>
- 74. Number of total population of Gaza 1950-2050** https://www.statista.com/statistics/1422981/gaza-total-population/?srsltid=AfmBOor3-epsP7Ch_B3oUtlSnYVGJtlnmoq8_kWvI7NxQfQ1Qumbu7S6

- 75. UN warns Palestinian population will double to 9.5 million ...** <https://www.timesofisrael.com/un-warns-palestinian-population-will-double-to-9-5-million-by-2050/>
- 76. MENA Generation 2030** <https://data.unicef.org/resources/middle-east-north-africa-generation-2030/>
- 77. Population growth in occupied Palestinian territory to drive ...** <https://news.un.org/en/story/2016/12/548332>
- 78. Perspectives on Social Suffering in Interviews and ...** <https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2018.01591/full>
- 79. Stop annexation - end the occupation** <https://oikoumene.org/what-we-do/eappi/stop-annexation-end-the-occupation>
- 80. Pax Christi Australia – International Christian Peace ...** <https://paxchristi.org.au/>
- 81. Sentiment Analysis of the Israel-Palestine Conflict on X** <https://journals.mmupress.com/index.php/jiwe/article/view/1663>
- 82. Barriers, Closures and Restrictions on Movement in the ...** <https://www.palestine-studies.org/en/node/1654908>
- 83. State of Palestine-2024-2025-01-30** <https://www.unicef.org/media/167341/file/State-of-Palestine-Humanitarian-SitRep-No.-34-31-December-2024.pdf>
- 84. Gaza: UNRWA's Lancet Study Reveals Alarming Surge in ...** <https://www.unrwa.org/newsroom/news-releases/gaza-unrwa%20%99s-lancet-study-reveals-alarming-surge-child-malnutrition>
- 85. Humanitarian Situation Update #285 | West Bank - OCHA oPt** <https://www.ochaopt.org/content/humanitarian-situation-update-285-west-bank>
- 86. oPt Humanitarian Fund 2024 First Standard Allocation Strategy** https://onegms.unocha.org/pubdocs/Allocationsdocs/OPT-AllocDocs_2024_1329_1066.pdf
- 87. Integrated Food Security Phase Classification: IPC** <https://www.ipcinfo.org/>
- 88. Global Report on Food Crises (GRFC) 2025** <https://www.fsinplatform.org/report/global-report-food-crises-2025/>
- 89. IPC Global Initiative - Special Snapshot** https://civil-protection-humanitarian-aid.ec.europa.eu/system/files/2025-08/IPC_Gaza_Strip_Acute_Food_Insecurity_Malnutrition_July_Sept2025_Special_Snapshot.pdf
- 90. Impact of the Mobility Restrictions in the Palestinian ...** <https://www.mdpi.com/2071-1050/13/23/13457>

- 91. (PDF) Impact of the Mobility Restrictions in the Palestinian ...** https://www.researchgate.net/publication/356849664_Impact_of_the_Mobility_Restrictions_in_the_Palestinian_Territory_on_the_Population_and_the_Environment
- 92. Full article: Disrupting movements, synchronising schedules** <https://www.tandfonline.com/doi/full/10.1080/13604813.2019.1689727>
- 93. Disrupting movements, synchronising schedules** <https://discovery.ucl.ac.uk/id/eprint/10088460/1/Disrupting%20movements%20synchronising%20schedules.pdf>
- 94. breaking the silence** https://www.ngo-monitor.org/pdf/bts_book2011.pdf
- 95. Perspectives on Social Suffering in Interviews and Drawings ...** <https://pmc.ncbi.nlm.nih.gov/articles/PMC6121196/>
- 96. Qalandia Checkpoint: The Historical Geography of a Non- ...** <https://www.palestine-studies.org/en/node/78360>
- 97. Victimization, Empathy, and Breaking the Cycles of ...** <https://pdfs.semanticscholar.org/4c23/8bee08df2e4ab670b286d48841d23bd5cd33.pdf>
- 98. (PDF) Sentiment Analysis of the Israel-Palestine Conflict on X** https://www.researchgate.net/publication/392853417_Sentiment_Analysis_of_the_Israel-Palestine_Conflict_on_X_Insights_from_the_Indonesian_Perspective_using_a_Long_Short-Term_Memory_Algorithm
- 99. Twitter Sentiment Geographic Index (TSGI)** <https://gis.harvard.edu/twitter-sentiment-geographic-index-tsgi>
- 100. Twitter Sentiment Geographical Index Dataset - PMC** <https://pmc.ncbi.nlm.nih.gov/articles/PMC10562363/>
- 101. Qalandia Checkpoint as Space and Nonplace** <https://www.semanticscholar.org/paper/Qalandia-Checkpoint-as-Space-and-Nonplace-Tawil-Souri/e7c0f332aca13a13afce0ea77525225d3324bb4f>
- 102. A Palestinian Icon w/ Helga Tawil-Souri** <https://www.youtube.com/watch?v=cbdIA4kw4rA>
- 103. The repercussions of watching scenes of the escalating ...** <https://pmc.ncbi.nlm.nih.gov/articles/PMC12042350/>
- 104. Prevalence and correlates of anxiety, depression, and ...** <https://conflictandhealth.biomedcentral.com/articles/10.1186/s13031-025-00681-1>
- 105. Traumatic events as predictors of social media addiction and ...** https://cdspress.ca/wp-content/uploads/2025/03/JGI-Nov-24-RES-489.R1_Mahamid_Proof_Traumatic_FINAL.pdf

- 106. The impact of Gaza war: online educational challenges and ...** <https://mecp.springeropen.com/articles/10.1186/s43045-025-00542-w>
- 107. Assessing the mental health impacts of Israeli occupation ...** <https://www.sciencedirect.com/science/article/pii/S1353829225000097>
- 108. The Psychological Effects of Israel's Security Narrative on ...** <https://scholarworks.arcadia.edu/cgi/viewcontent.cgi?article=1060&context=agsjournal>
- 109. Traumatic events and psychological wellbeing among ...** <https://PMC12037338/>
- 110. From Screens to Scars: Understanding the Association ...** <https://onlinelibrary.wiley.com/doi/10.1002/smi.70115>
- 111. (PDF) The repercussions of watching scenes ...** https://www.researchgate.net/publication/391321150_The_repercussions_of_watching_scenes_of_the_escalating_conflict_in_Gaza_strip_on_the_mental_health_of_adolescents_in_a_neighboring_country
- 112. Depression, anxiety and coping strategies among ...** <https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2024.1436672/full>
- 113. A Threshold Crossed: Israeli Authorities and the Crimes ...** <https://www.hrw.org/report/2021/04/27/threshold-crossed/israeli-authorities-and-crimes-apartheid-and-persecution>
- 114. Joint Urgent Appeal Parallel to its Aggression on Gaza, ...** https://www.alhaq.org/cached_uploads/download/2023/11/03/231102-joint-urgent-appeal-parallel-to-its-aggression-on-gaza-israel-escalates-its-oppression-of-palestinians-in-every-part-of-historic-palestine-1699003276.pdf
- 115. Traffic Congestion Analysis Based on a Web-GIS and Data ...** <https://www.mdpi.com/1424-8220/21/9/2964>
- 116. (PDF) Traffic Congestion Analysis Based on a Web-GIS ...** https://www.researchgate.net/publication/351149972_Traffic_Congestion_Analysis_Based_on_a_Web-GIS_and_Data_Mining_of_Traffic_Events_from_Twitter
- 117. Traffic Congestion Analysis Based on a Web-GIS and Data ...** <https://pubmed.ncbi.nlm.nih.gov/33922627/>
- 118. Traffic Congestion Analysis Based on a Web-GIS and Data ...** <https://www.scienceopen.com/document?vid=bdc4377c-0905-4941-84a5-28b14a7db2b3>
- 119. Qalandia Checkpoint: The Historical Geography of a Non- ...** https://www.researchgate.net/publication/390507212_Qalandia_Checkpoint_The_Historical_Geography_of_a_Non-Place

- 120. Qalandia Checkpoint as Space and Nonplace** <https://journals.sagepub.com/doi/10.1177/1206331210389260>
- 121. (PDF) Qalandia Checkpoint as Space and Nonplace** https://www.academia.edu/456908/Qalandia_Checkpoint_as_Space_and_Nonplace
- 122. Qalandia Checkpoint as Space and Nonplace** https://www.researchgate.net/publication/258184085_Qalandia_Checkpoint_as_Space_and_Nonplace
- 123. MIT deepens connections to the Middle East** <https://news.mit.edu/2020/mit-deepens-connections-middle-east-1006>