



Understanding Modern Urban Operations



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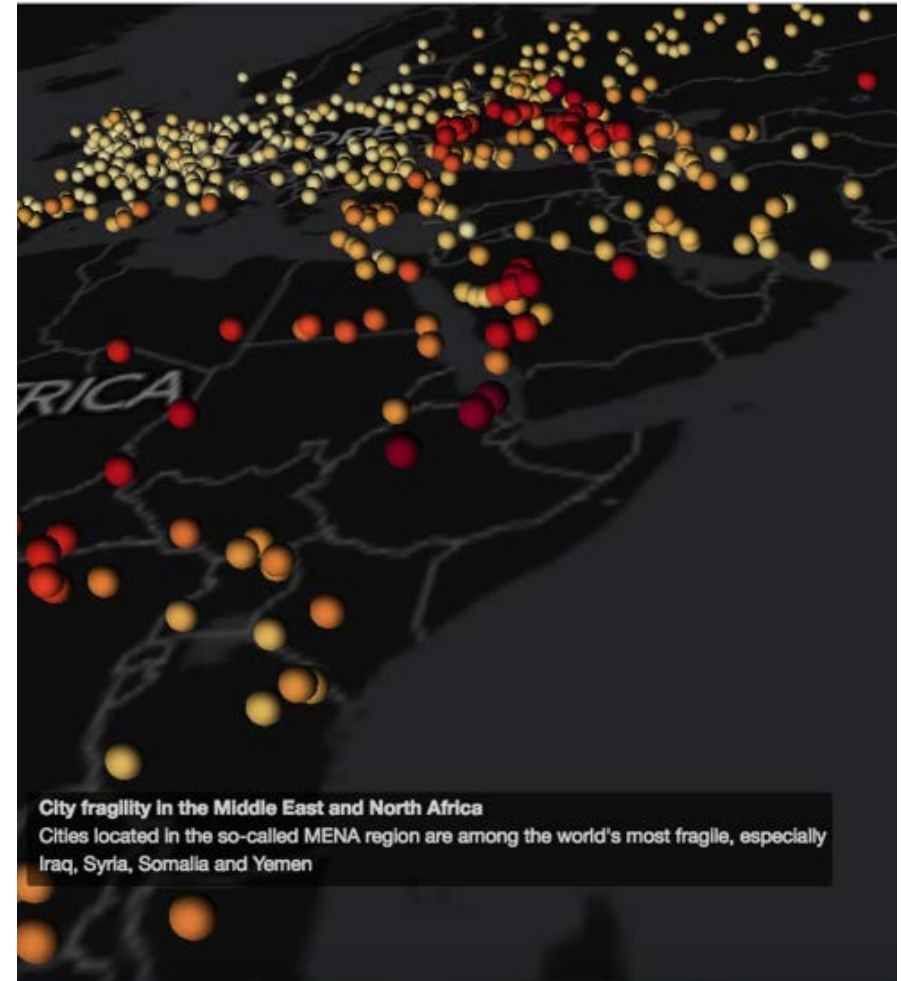
Predicting Urban Operations

- Global demographic and urbanization trends
- History of war
- Trends of modern warfare
- Global warming



City Fragility Index

- City fragility is not confined to developing countries alone
- City fragility is not restricted to fragile and conflict-affected states
- Megacities and large cities are not necessarily the most at risk of fragility



“Modern Urban Warfare”



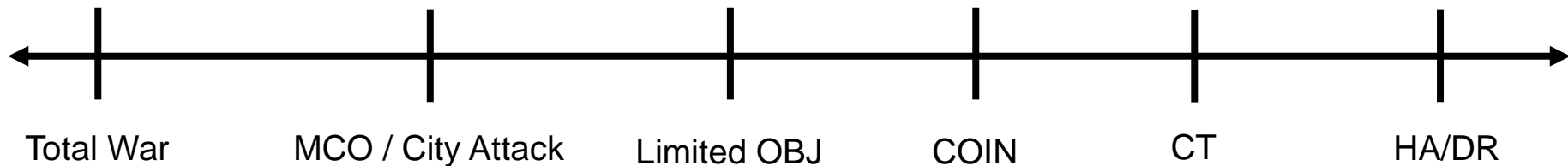
*Stalingrad, 1943
 Leningrad, 1944
 Berlin, 1945
 Vukovar, 1991
 Sarajevo, 1992
 Grozny, 1994
 Aleppo, 2012

Aachen, 1944
 Manila, 1945
 Seoul, 1950
 Hue, 1968
 Fallujah, 2004
 Mosul, 2016
 Marawi, 2017

Panama, 1989
 Baghdad, 2003
 Sadr City, 2008
 Gaza, 2009
 Gaza, 2014

Palestine, 1944
 Algeria, 1954
 Venezuela, 1960
 Ireland, 1979
 Iraq, 2004

Munich, 1972
 Mogadishu, 1993
 Mumbai, 2008
 Abbottabad, 2011





Mission with the most risk – City Attack

Mission – Attack to either kill/capture all hostile forces (enemy based) or to seize/recapture/liberate (terrain based) a city or portion of a city when the enemy has besieged the city and is using it as a defensive zone.

Risk

- Loss of political (domestic/regional/international) will to conduct or continue the mission
- Mission failure
- Cost outweighs the political value/benefit
 - Death of attacking soldiers
 - Death of non-combatants
 - Amount of collateral damage infrastructure



Resurgence of the city attacks (Positional/Siege Warfare)

Vukovar, Bosnia: 25 August 1991 to 18 November 1991

Sarajevo, Bosnia and Herzegovina: 1 September 1992 to 29 February 1996

Grozny, Chechnya: 31 December 1994 to 8 February 1995

Grozny, Chechnya: 25 December 1999 to 6 February 2000

Fallujah, Iraq: 4 April 2004 to 23 December 2004

Sadr City, Iraq: 23 March 2008 to 12 May 2008

Aleppo, Syria: 19 July 2012 to 22 December 2016

Ghouta, Syria: 7 April 2013 to 14 April 2018

Deir ez-Zor, Syria: 14 July 2014 to 10 September 2017

Ilovaisk, Ukraine: 7 August 2014 to 2 September 2014

Kobani, Syria: 13 September 2014 to 15 March 2015

Donetsk Airport, Ukraine: 28 September 2014 to 21 January 2015

Debal'tseve, Ukraine: 14 January 2015 to 20 February 2015

Raqqa, Syria: 6 November 2016 to 17 October 2017

Mosul, Iraq: 16 October 2016 to 20 July 2017

Marawi, Philippines: 23 May 2017 – 23 October 2017

10 in
8 yrs

Frequent, enduring, modern challenges

- Complex obstacles
- Ambushes
- VBIED/HBIEDs
- Engaging from ground to elevation
- Snipers (to include remote)
- Fortified buildings
- COTS UAVs
- Information warfare
- Underground warfare





- 1) Rapid command and control
- 2) Search and rescue
- 3) Delivering and securing immediate aid (food, water, medical care)
 - Crowd control
- 4) Security
 - Deterring looters
 - Preventing black markets
 - Collective assurance
- 5) Clean up
 - Debris/rubble clearing
 - Dead body care
 - EOD
- 6) Logistics planning
- 7) Managing flows*
- 8) Governance vs Government*

