

World War 3: We're losing it...

Detailed Table of Contents

1	Introduction.....	4
1.1	Overview.....	6
1.2	What do I know about information warfare?.....	6
2	What is iwar and why it is important?.....	13
2.1	Network-centric warfare.....	13
2.2	Objectives.....	13
2.3	Mismatches.....	14
2.4	PsyOps.....	15
2.5	Them and us?.....	15
2.6	The spectrum of conflict.....	16
2.7	Certainty and intelligence.....	17
2.8	Tempo and time.....	18
2.9	Targeting.....	19
2.10	Interdependencies and brittleness.....	20
2.11	Mapping and personal warfare.....	21
2.12	Hard kill vs. soft kill.....	22
2.13	Economic war.....	23
2.14	Controllability of effects.....	24
2.15	Control of the media and the message.....	25
2.16	Truth and Lies: Deception in warfare.....	26
2.17	Propaganda.....	27
2.18	Marketing and operations.....	28
2.19	The free press will save us.....	29
2.20	The social fabric and dependencies.....	30
2.21	Reality eventually sets in.....	31
2.22	A long way to go.....	32
3	Intensity levels of information war.....	33
3.1	Offense.....	34
3.2	Defense.....	34
3.3	Overt, high frequency, tactical actions.....	35
3.4	Covert, low frequency, strategic actions.....	35
3.5	Peace, competition, and diplomacy.....	36
3.6	War and all out use of force.....	37
3.7	The defensive picture.....	38

World War 3: We're losing it...

3.8	The offensive picture.....	41
3.9	Escalation and deescalation.....	45
3.10	These aren't just theories.....	46
3.11	Coming to peace.....	46
3.12	Individualized conflict and resolution.....	47
4	Information war and nation states.....	49
4.1	The US.....	50
4.2	China.....	53
4.3	India.....	59
4.4	The Former Soviet Union and Russia.....	61
4.5	France.....	63
4.6	Canada.....	64
4.7	Israel.....	66
4.8	The India vs. Pakistan and China conflicts.....	68
4.9	The Israel vs. Palestine conflict.....	70
4.10	The China vs. US conflict.....	72
4.11	Other pairings.....	84
4.12	Groups and coalitions.....	84
4.13	A roll-up discussion.....	85
5	Criminals and information war.....	96
5.1	Classic criminal enterprises.....	100
5.2	Gangs.....	104
5.3	Drug cartels.....	107
5.4	Criminal information exchanges.....	113
5.5	Computers to commit crimes.....	115
5.6	Using computers to get to people.....	118
5.7	Computers for fencing and laundering.....	120
5.8	Piracy.....	122
5.9	Credit card fraud and identity theft.....	124
5.10	On line gambling.....	126
5.11	Child pornography and prostitution.....	128
5.12	The aura of legitimacy.....	129
5.13	The future criminal enterprise.....	130
6	Information war and religious groups.....	132
6.1	The Christians.....	134
6.2	The Radical Islamists.....	136
6.3	The Jews and Israel.....	138

World War 3: We're losing it...

6.4	The religious terrorist groups.....	139
6.5	The Scientists.....	140
6.6	The end of religion as we know it?.....	142
7	Corporate information war.....	144
7.1	Corporate espionage.....	146
7.2	Perception management.....	148
7.3	Marketing and sales and the use of force.....	150
7.4	Legal constraints and buying the law.....	151
7.5	Internationalization and skirting local laws.....	152
7.6	How will niches survive?.....	154
7.7	Corporations against each other.....	156
7.8	Corporations against nation states.....	158
7.9	The military information complex.....	160
8	Propaganda.....	162
8.1	Identify and demonize the enemy.....	164
8.2	Gaining endorsements.....	166
8.3	Branding and associations.....	168
8.4	Consistency and messaging.....	170
8.5	Combine fear with action for effect.....	172
8.6	Sustaining the big lie.....	174
8.7	Doublespeak and other speech patterns.....	175
8.8	Silencing the opposition.....	176
8.9	The end of news as we knew it.....	178
8.10	Recognizing and defeating propaganda.....	180
9	Politics.....	182
9.1	Timing.....	184
9.2	Divisive issues.....	186
9.3	Pork.....	187
9.4	Taxes and land grabs.....	188
9.5	Campaign seasons.....	190
9.6	Crowd controls.....	192
10	Heart Throb and other war games.....	194
10.1	Game theoretic types and real game types.....	196
10.2	Operations research and gaming.....	198
10.3	Strategic games.....	200
10.4	The theory of groups.....	202
10.5	Hearth Throb.....	204

World War 3: We're losing it...

10.6	Automatic games and simulations.....	206
10.7	Situation anticipation and constraint.....	208
10.8	Gaming for other purposes.....	210
10.9	Gaming for military applications.....	212
10.10	Information warfare in war games.....	213
10.11	Military information warfare war games.....	214
10.12	Business information war games.....	215
11	The spectrum.....	216
11.1	Wave forms.....	218
11.2	EMP weapons.....	220
11.3	Taking out swaths of the Earth.....	221
11.4	Tempest.....	222
11.5	Countering Tempest.....	224
11.6	Deceptions.....	226
11.7	Sounds and silence.....	227
11.8	Covert channels.....	228
12	Information attack tactics.....	230
12.1	Approaches and attack graphs.....	232
12.2	Direct attack on computers over networks.....	234
12.3	Perception management.....	236
12.4	Indirect intelligence gathering.....	238
12.5	Direct intelligence gathering.....	240
12.6	Garbage collection.....	242
12.7	Physical entry and appearances.....	242
12.8	Trojan and plants.....	244
12.9	Combinations and sequences.....	246
13	Legal issues.....	248
13.1	Codes of military conduct.....	250
13.2	International law and tribunals.....	252
13.3	Individual rights and privileges.....	254
13.4	Intellectual property laws and rights.....	255
13.5	Patent, copyright, and trade secret laws.....	257
13.6	Wealth and power and the law.....	259
14	Information warfare defenses.....	260
14.1	Technical defenses.....	261
14.2	Technical structural defenses.....	262
14.3	Technical perception defenses.....	264

World War 3: We're losing it...

14.4	Technical content defenses.....	266
14.5	Technical behavioral defenses.....	268
14.6	Psychological defenses.....	270
14.7	Business defenses.....	274
14.8	Military defenses.....	276
14.9	Modeling, simulation, and gaming.....	278
14.10	Indications and warnings.....	279
14.11	Political defenses.....	280
14.12	Individual defenses.....	282
14.13	Media defenses.....	283
14.14	National and strategic defenses.....	284
15	Education and the future of the World.....	286
15.1	The need for an educated populace.....	288
15.2	The need for education in specific areas.....	290
15.3	The need for an educational system.....	292
15.4	The need for a professorate.....	294
15.5	The need for an educated industrial base.....	296
15.6	The need for science and engineering.....	297
15.7	The need for mathematics education.....	298
15.8	Soft science is the hard science.....	299
15.9	Secret science – the oxymoron.....	300
15.10	The last place to look for funds.....	303
16	The end is near.....	304
16.1	The information warfare A-team.....	305
16.2	Thinking globally and strategically.....	306
16.3	Acting locally and tactically.....	307
16.4	Who is winning the war?.....	308
16.5	Conclusion?.....	309