Juliette Zerick
June 4, 2009
PHY 250
Spring 2009

Armageddon Equations, MK6

$$G_S(n+1) = G_S(n)\, e^{u_{gsge} G_E(n) + u_{gsp} P(n) + u_{gsm} M(n) + u_{gst} T(n) - u_{gscs} B_S(n)}$$

$$G_E(n+1) = G_E(n)\, e^{u_{gegs} G_S(n) + u_{get} T(n) - u_{gem} M(n) - u_{gece} B_E(n)}$$

$$B_S(n+1) = B_S(n)\, e^{u_{bsbe} B_E(n) - u_{bst} T(n) - u_{bsp} P(n) - u_{bsm} M(n) - u_{bscs} G_S(n)}$$

$$B_E(n+1) = B_E(n)\, e^{u_{bebs} B_S(n) - u_{bet} T(n) - u_{becs} G_S(n) - u_{bece} G_E(n)}$$

$$P(n+1) = P(n) + u_{pt} T(n) + u_{pgs} G_S(n) + u_{pge} G_E(n) - u_{pbs} B_S(n) - u_{pbe} B_E(n) - u_{pm} M(n)$$

$$M(n+1) = M(n)\, e^{-u_{mg} G_E(n) \ln(G_S(n)) + u_{mcse} B_S(n) G_S(n) G_E(n) + u_{mp} P(n) - u_{mtgs} T(n) G_S(n) G_E(n) - u_{mb} B_S(n) B_E(n)}$$

$$T(n+1) = T(n) + u_{tgs} G_S(n) - u_{tbs} B_S(n) + u_{tge} G_E(n) + u_{tbe} B_E(n) + u_{tp} P(n) + u_{tg} G_S(n) M(n) + u_{tb} B_E(n) \ln(B_S(n)) - u_{tcs} e^{u_{csx} G_S(n) B_S(n)} - u_{tce} e^{u_{cex} G_E(n) B_E(n)}$$

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$$G_S(n+1)=G_S(n)\,e^{u_{gsge}G_E(n)+u_{gsp}P(n)+u_{gsm}M(n)+u_{gst}T(n)-u_{gscs}B_S(n)}$$

$$G_E(n+1)=G_E(n)\,e^{u_{gegs}G_S(n)+u_{get}T(n)-u_{gem}M(n)-u_{gece}B_E(n)}$$

$$B_S(n+1)=B_S(n)\,e^{u_{bsbe}B_E(n)-u_{bst}T(n)-u_{bsp}P(n)-u_{bsm}M(n)-u_{bscs}G_S(n)}$$

$$B_E(n+1)=B_E(n)\,e^{u_{bebs}B_S(n)-u_{bet}T(n)-u_{becs}G_S(n)-u_{bece}G_E(n)}$$

$$P(n+1)=P(n)+u_{pt}T(n)+u_{pgs}G_S(n)+u_{pge}G_E(n)-u_{pbs}B_S(n)-u_{pbe}B_E(n)-u_{pm}M(n)$$

$$M(n+1)=M(n)\,e^{-u_{mg}G_E(n)\ln(G_S(n))+u_{mcse}B_S(n)G_S(n)G_E(n)+u_{mp}P(n)-u_{mtgs}T(n)G_S(n)G_E(n)-u_{mb}B_S(n)B_E(n)}$$

$$T(n+1)=T(n)+u_{tgs}G_S(n)-u_{tbs}B_S(n)+u_{tge}G_E(n)+u_{tbe}B_E(n)+u_{tp}P(n)+u_{tg}G_S(n)M(n)$$
$$+u_{tb}B_E(n)\ln(B_S(n))-u_{tcs}e^{u_{csx}G_S(n)B_S(n)}-u_{tce}e^{u_{cex}G_E(n)B_E(n)}$$

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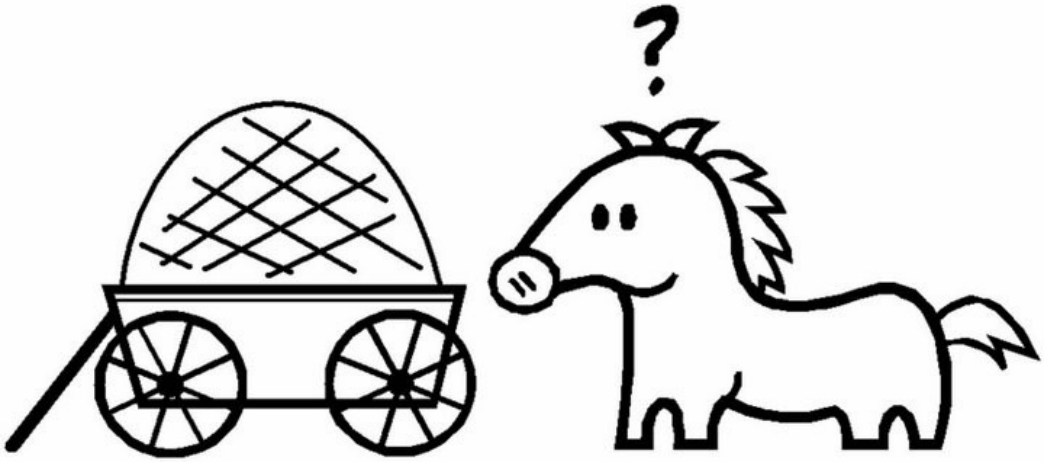

$$G_S(n+1) = G_S(n)\, e^{u_{gsge} G_E(n) + u_{gsp} P(n) + u_{gsm} M(n) + u_{gst} T(n) - u_{gscs} B_S(n)}$$

$$G_E(n+1) = G_E(n)\, e^{u_{gegs} G_S(n) + u_{get} T(n) - u_{gem} M(n) - u_{gece} B_E(n)}$$

$$B_S(n+1) = B_S(n)\, e^{u_{bsbe} B_E(n) - u_{bst} T(n) - u_{bsp} P(n) - u_{bsm} M(n) - u_{bscs} G_S(n)}$$

$$B_E(n+1) = B_E(n)\, e^{u_{bebs} B_S(n) - u_{bet} T(n) - u_{becs} G_S(n) - u_{bece} G_E(n)}$$

$$P(n+1) = P(n) + u_{pt} T(n) + u_{pgs} G_S(n) + u_{pge} G_E(n) - u_{pbs} B_S(n) - u_{pbe} B_E(n) - u_{pm} M(n)$$

$$M(n+1) = M(n)\, e^{-u_{mg} G_E(n) \ln(G_S(n)) + u_{mcse} B_S(n) G_S(n) G_E(n) + u_{mp} P(n) - u_{mtgs} T(n) G_S(n) G_E(n) - u_{mb} B_S(n) B_E(n)}$$

$$T(n+1) = T(n) + u_{tgs} G_S(n) - u_{tbs} B_S(n) + u_{tge} G_E(n) + u_{tbe} B_E(n) + u_{tp} P(n) + u_{tg} G_S(n) M(n) + u_{tb} B_E(n) \ln(B_S(n)) - u_{tcs} e^{u_{csx} G_S(n) B_S(n)} - u_{tce} e^{u_{cex} G_E(n) B_E(n)}$$

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$$G_S(n+1) = G_S(n)\, e^{u_{gsge} G_E(n) + u_{gsp} P(n) + u_{gsm} M(n) + u_{gst} T(n) - u_{gscs} B_S(n)}$$

$$G_E(n+1) = G_E(n)\, e^{u_{gegs} G_S(n) + u_{get} T(n) - u_{gem} M(n) - u_{gece} B_E(n)}$$

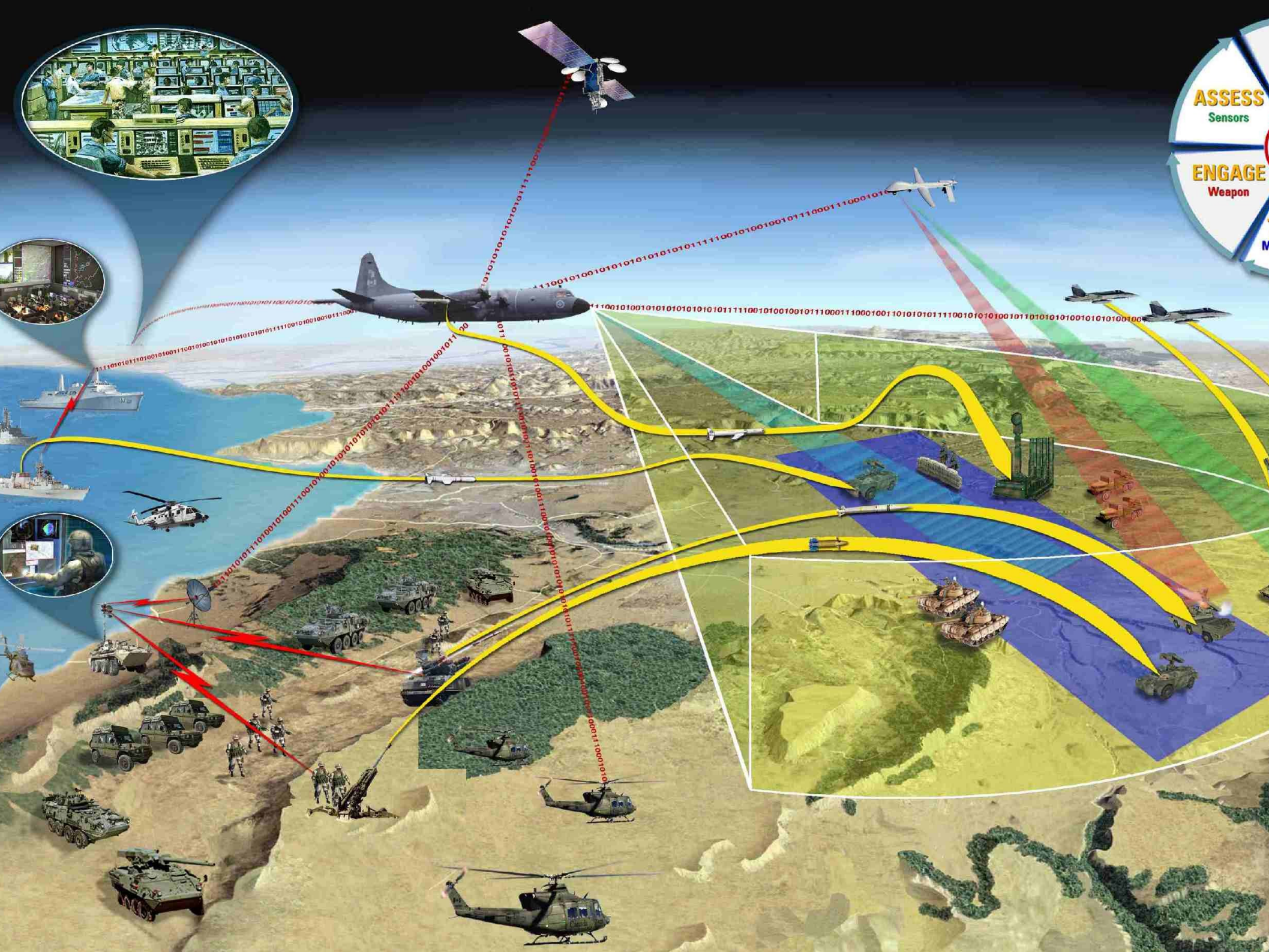
$$B_S(n+1) = B_S(n)\, e^{u_{bsbe} B_E(n) - u_{bst} T(n) - u_{bsp} P(n) - u_{bsm} M(n) - u_{bscs} G_S(n)}$$

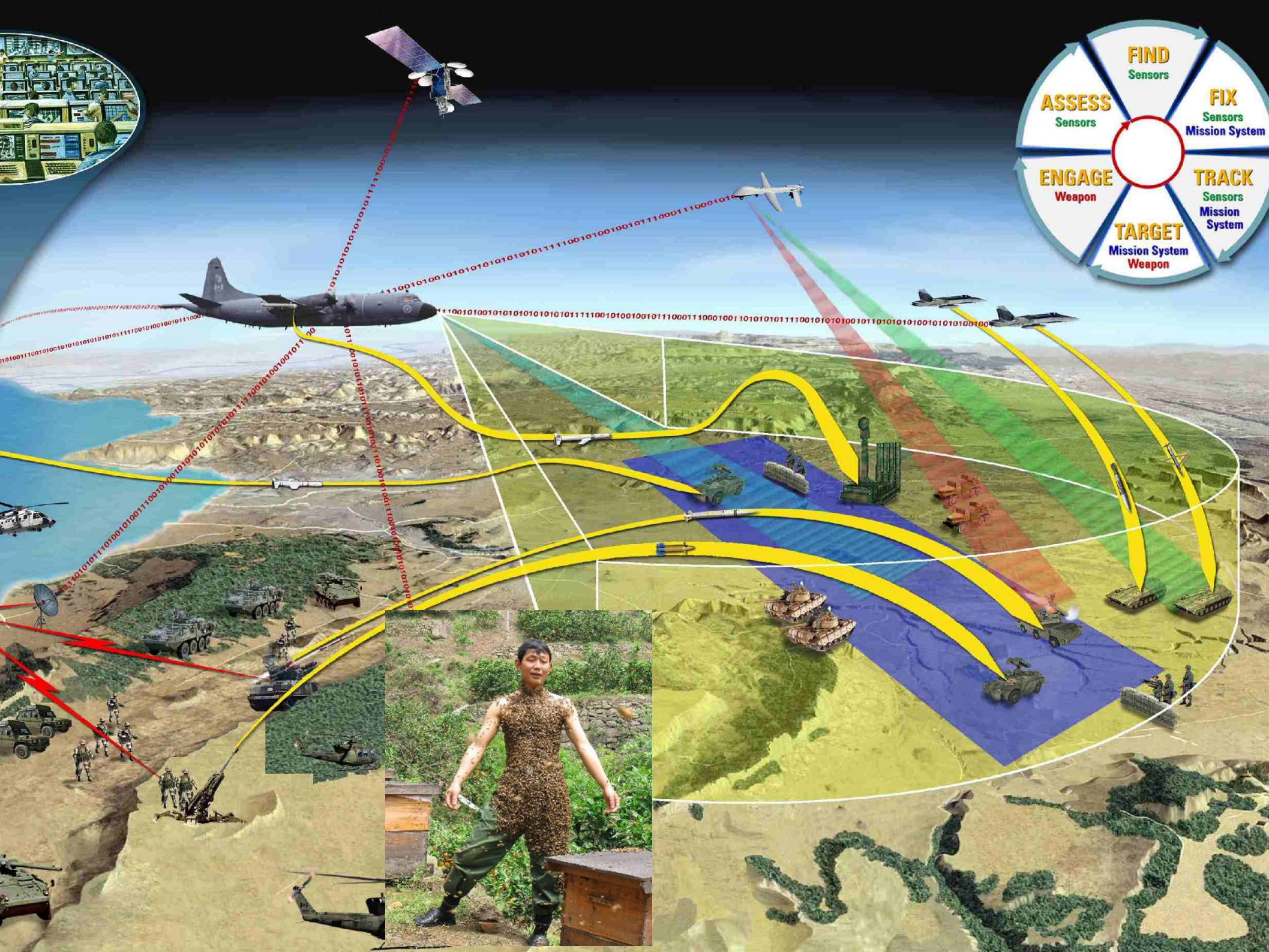
$$B_E(n+1) = B_E(n)\, e^{u_{bebs} B_S(n) - u_{bet} T(n) - u_{becs} G_S(n) - u_{bece} G_E(n)}$$

$$P(n+1) = P(n) + u_{pt} T(n) + u_{pgs} G_S(n) + u_{pge} G_E(n) - u_{pbs} B_S(n) - u_{pbe} B_E(n) - u_{pm} M(n)$$

$$M(n+1) = M(n)\, e^{-u_{mg} G_E(n) \ln(G_S(n)) + u_{mcse} B_S(n) G_S(n) G_E(n) + u_{mp} P(n) - u_{mtgs} T(n) G_S(n) G_E(n) - u_{mb} B_S(n) B_E(n)}$$

$$T(n+1) = T(n) + u_{tgs} G_S(n) - u_{tbs} B_S(n) + u_{tge} G_E(n) + u_{tbe} B_E(n) + u_{tp} P(n) + u_{tg} G_S(n) M(n) + u_{tb} B_E(n) \ln(B_S(n)) - u_{tcs} e^{u_{csx} G_S(n) B_S(n)} - u_{tce} e^{u_{cex} G_E(n) B_E(n)}$$


ASSESS
Sensors
ENGAGE
Weapon


FIND
Sensors
FIX
Sensors
Mission System
TRACK
Sensors
Mission System
TARGET
Mission System
Weapon
ENGAGE
Weapon
ASSESS
Sensors