## BoundaryStrategy # side + BoundaryStrategy() + distance() + relative\_pos() #boundary\_strategy Aestivation Dispersal - psi # disp\_rate - mu aes **GDRelease** # max\_disp - t\_hide1 InitialPopsParams # num\_driver\_M # connec\_indices - t\_hide2 Seasonality initial\_WJ # release\_times # connec weights - t wake1 + GDRelease() # alpha1 initial WM + Dispersal() - t\_wake2 + Seasonality() + release gene drive() initial WV + ~Dispersal() - aes\_F # is\_release\_time() + alpha() initial\_WF + Aestivation() + set connecs() # select\_driver\_sites() + adults\_disperse() + hide() # put\_driver\_sites() # M\_dispersing\_out() + wake() # F\_dispersing\_out() + is\_hide\_time() + is\_wake\_time() seasonality -dispersal -aestivation -gd\_release -initial\_pops Model - sites - day\_sim - num\_pat - side - min\_dev - dev\_duration\_probs - inher\_fraction - alpha0\_mean - alpha0\_variance + Model() + Model() + ~Model() + initiate() + run() + calculate\_tot\_J() + calculate\_tot\_M() + calculate tot V() + calculate\_tot\_F() + calculate\_tot\_M\_gen() + get\_sites() + get\_day() + get\_alpha() - alpha0() - populate\_sites() - set\_dev\_duration\_probs() - run\_step() - juv\_get\_older() - adults\_die() - virgins\_mate()

lay\_eggs()juv\_eclose()