```
ea::Solver base< Solver
< PSOs, T, F, C >, PSOs.
          T. F. C >
# solver struct
# f
# c
# individuals
# min cost
# last iter
# solved flag
# timer
# distribution
+ solver bench()
# Solver base()
# randomise individual()
# init individuals()
# find min cost()
# display results()
# write results to file()
  ea::Solver< PSOs, T,
           F. C >
  - pso
  - W
  vmax

    personal best

    local best

    velocity

    nneigh

    neighbourhoods

  + Solver()
  set neighbourhoods()
  generate r()
  position_update()
  best update()
  find min local best()
  - check pso criteria()
  - run algo()
  euclid distance()
  display parameters()
```