S1 Figure. Processes in one time step

Combustibility and quantity/arrangement of burning (donor) leaves determines flame length

Distance between leaves and flame angle as affected by wind/slope determine the temperature at potential fuel (receiver) leaves

Ignitability of receiver leaves determines whether they will ignite in that time step

Sustainability of burning leaves determines how many will remain burning after that time step

Newly ignited leaves are added to the total number burning and extinguished leaves removed from it

Time-step