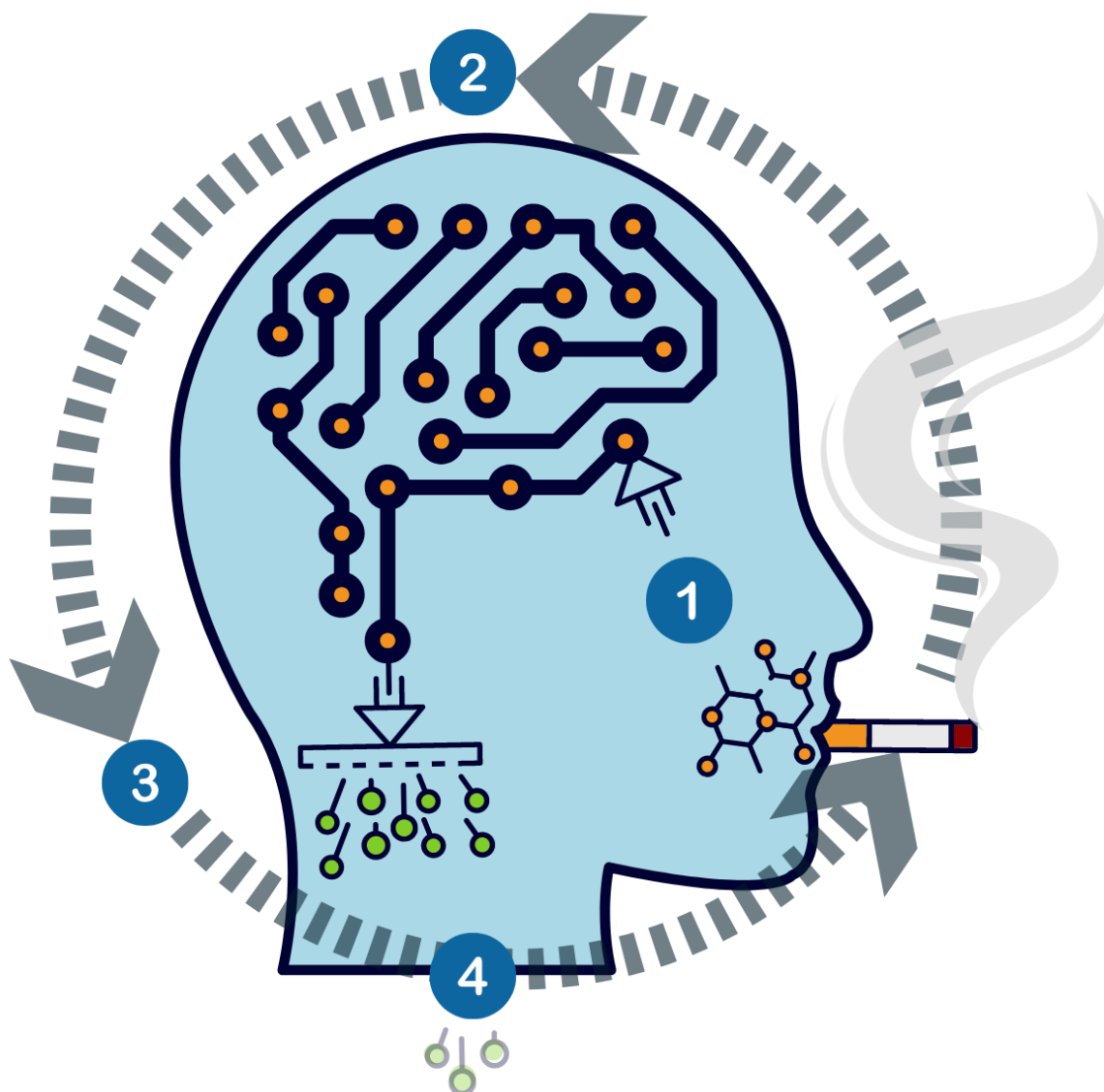
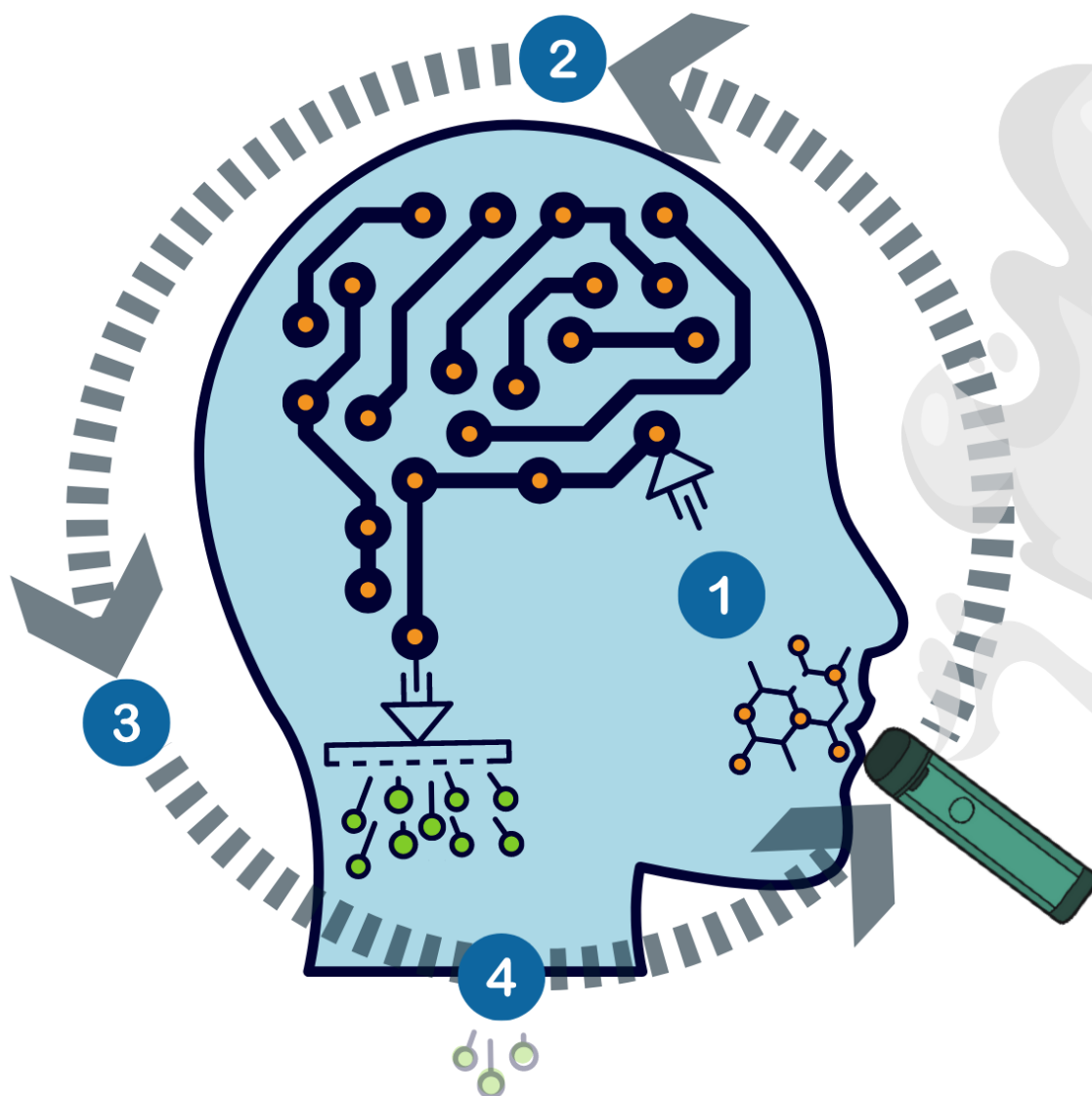


## TTF3: Nicotine's mechanism of action on the brain



### ***The development of nicotine dependence***

- 1 Nicotine delivered by smoking and travels to the brain
- 2 Nicotine activates nicotinic receptors which stimulate the release of Dopamine
- 3 Dopamine released, leading to pleasant feelings of calmness and reward
- 4 Dopamine levels reduce, leading to withdrawal symptoms of stress and anxiety, which trigger the desire for another cigarette.



## ***The development of nicotine dependence***

- 1** Nicotine delivered by vaping and travels to the brain
- 2** Nicotine activates nicotinic receptors which stimulate the release of Dopamine
- 3** Dopamine released, leading to pleasant feelings of calmness and reward
- 4** Dopamine levels reduce, leading to withdrawal symptoms of stress and anxiety, which triggers the desire for more vaping.