

### PREVALENCE OF VAPING IN FRANCE IN 2021 AMONG 18-75 YEAR OLDS: RESULTS FROM THE SANTÉ PUBLIQUE FRANCE HEALTH BAROMETER

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#### **CONTEXT**

- E-cigarettes introduced to the French market in the early 2010s
- Position of the High Council for Public Health in January 2022, which does not take into account the latest Cochrane update (November 2022)
- **For health professionals**: In a smoking cessation process, the first-line drug treatments are nicotine replacement therapies, for which effectiveness has been proven.
- For the general population: As an over-the-counter product for adults, vaping
  products can be used, by individual choice, outside or in addition to support for
  quitting smoking within the framework of the care; however, there is currently no
  sufficient scientific evidence to confirm that vaping products can help people quit
  smoking.
- Almost immediately, the relationship between vaping and smoking raised many questions which are still unsolved.



#### **CONTEXT**

- Questions on e-cigarette use were included for the first time in 2014 in the Santé publique France Health Barometer, and every year since. In 2020, 5% of adults said they vaped, 4% vaped daily.
- Prevalence of vaping among adolescents (Enclass OFDT 2021 survey among last year of college, 14,9 yo on average): levels of e-cigarette use are for the first time higher than those of tobacco cigarettes, for both experimentation (34.2%) and use in the last month (13.9%). However, daily use of e-cigarettes (2.8%) remained less common than daily smoking (3,7%). New data regarding vaping among 17 year-olds are presented by OFDT at this session (Escapad 2022 survey).
- The **prevalence of daily smoking** in France is high: 25.5% in 2020 among 18-75 year olds
  - → What about the prevalence of vaping among adults in 2021?



#### **METHODS**

- The Santé publique France Health Barometer surveys
  - The reference survey in France to measure health behaviors since 1992
  - Random sample, representative survey of the population living in France and speaking French

#### 2021 Health Barometer in Mainland France

- From February 11 to December 15, 2021 (with a summer break)
- **24,514** people interviewed by telephone, age: 18-85 years old.
- 22,625 respondents aged 18-75, to be comparable to previous Barometers
- Main topics covered: tobacco and alcohol consumption, diet, physical activity, mental health, etc.



#### STUDY OBJECTIVES

- Estimate the **prevalence of vaping** among adults in 2021
- Evolution since 2014, year of the first measurement in France
- Estimate regional prevalences in Mainland France in 2021
- Describe vapers socio-demographics

### **RESULTS: VAPING PREVALENCE**



### **IN 2021**

- > 38.7% of 18-75 yo said they had **tried** e-cigarettes (lifetime prevalence)
- ▶ 6.7% of 18-75 yo said they currently vape
- > 5.0% of 18-75 yo reported vaping daily

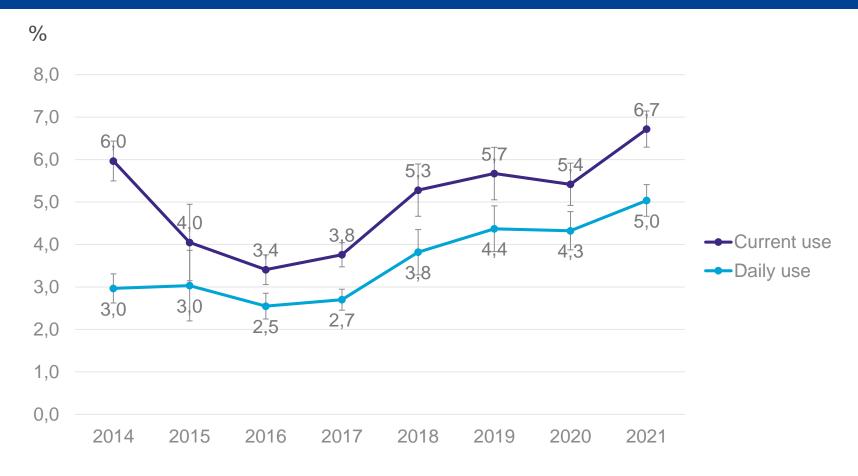
## Type of e-cigarette used by current vapers

>73.6% of vapers use an e-cigarette with nicotine in 2021, as in 2017.

	2017	2021
With nicotine	73.0	73.6
Without nicotine	12.7	16.5
Both	14.3	9.9

# RESULTS: CHANGES IN PREVALENCE, 18-75YO, 2014-2021

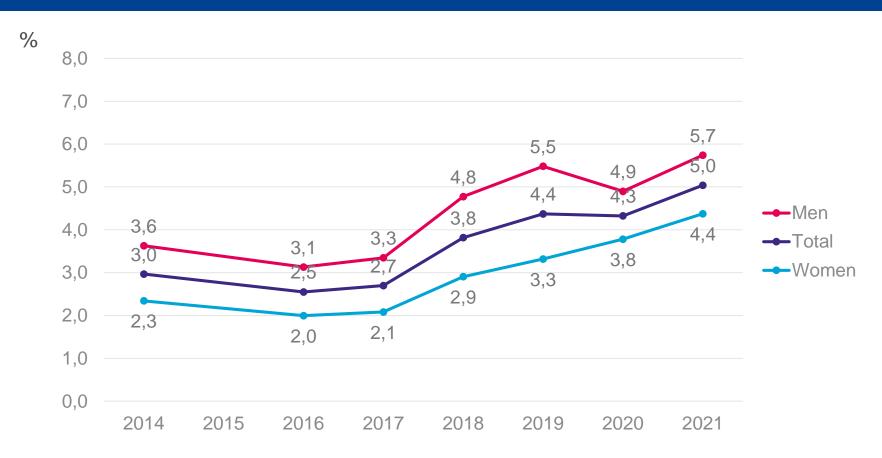




➤ The prevalence of current vaping and daily vaping is increasing, with a recent significant increase between 2020 and 2021.

# RESULTS: DAILY VAPING BY GENDER, 18-75YO, 2014-2021

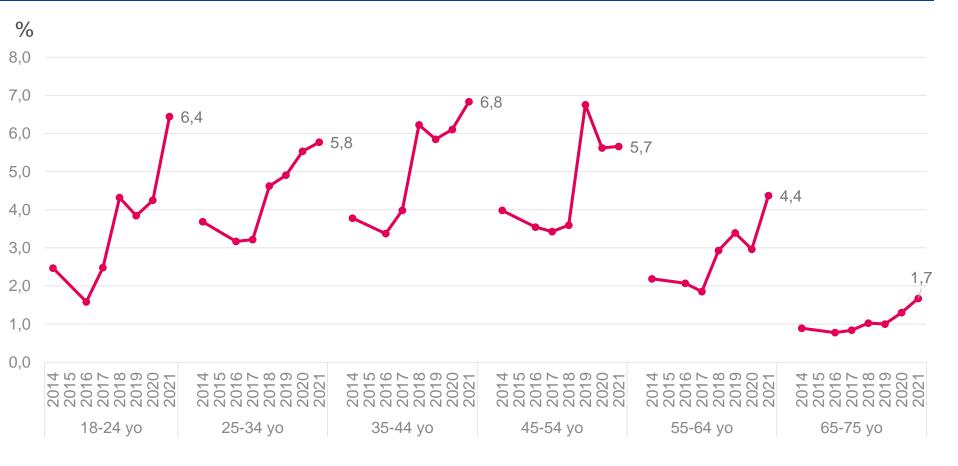




- > Daily vaping is more common among men
- > The same trend is observed among men and women: an increase in daily use

### **RESULTS: DAILY VAPING BY AGE, 2014-2021**

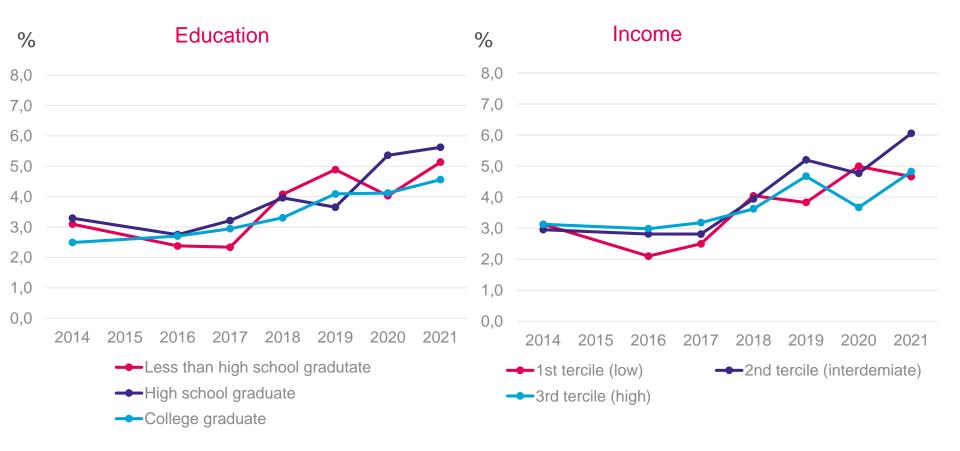




- ➤ In 2021, the prevalence of daily vaping is at the same level among 18-54 year olds, and lower among the oldest
- 2014 2021 : increase in daily use among all age groups

# RESULTS: DAILY VAPING BY EDUCATION AND INCOME, 2014-2021



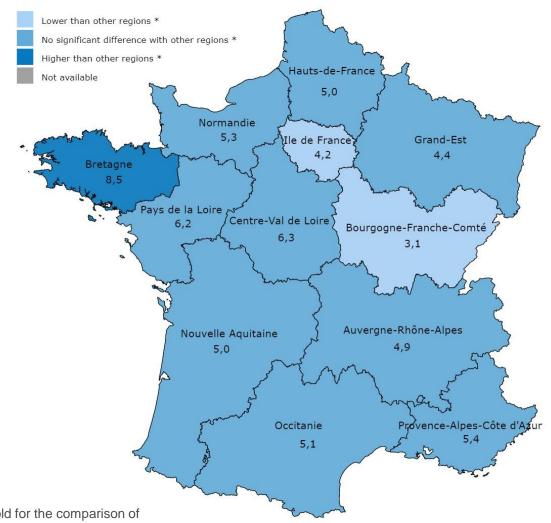


- ➤ The prevalence of daily vaping is at the same level according to the level of education or to the level of income
- Evolutions differ little by degree or income

# RESULTS: REGIONAL PREVALENCE OF DAILY VAPING 2021 IN METROPOLITAN FRANCE



- One region has a higher prevalence than the rest of Mainland France: Bretagne
- ▶2 regions have a lower prevalence: Ilede-France and Bourgogne-Franche-Comté



\* Significant difference at the 5% threshold for the comparison of each region to the rest of metropolitan France.



### **RESULTS: WHO ARE THE VAPERS?**



### Characteristics of vapers compared to the rest of the population

- More men (54% vs 48%)
- ➤ People under 45
- ➤ With the baccalaureate as a level of diploma (24% vs 21%)
- ➤ With average income (2nd tercile) (34% vs 29%)

### **RESULTS: SMOKING STATUS OF DAILY VAPERS**





- ➤ Almost all vapers have experimented tobacco.
- ➤ 2021: Among vapers, tobacco/e-cigarette dual users are the majority with 41.2% daily smokers and 14.3% occasional smokers / 43.7% ex-smokers
- Since 2017, stability of the smoking status of daily vapers, no increase in the proportion of ex-smokers.

### **RESULTS: WHO ARE THE VAPERS?**



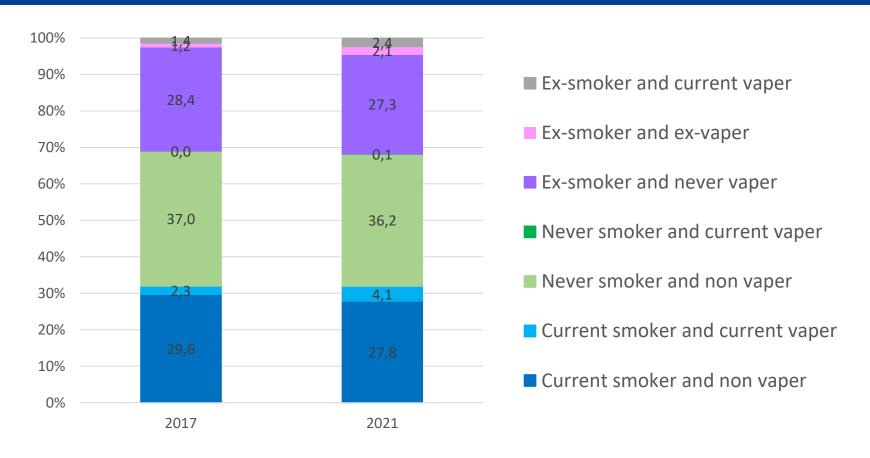
### Desire to quit among current smokers : vapers versus non-vapers

- Desire to quit in a shorter term
- But a third do not want to quit smoking

	Smoker and vaper %	Smoker non-vaper %	
desire and plan to quit smoking			
in the coming month	18,1	9,7	
in the next 6 months	18,4	14,9	
in the next 12 months	6,0	4,3	
in the undetermined future	25,2	26,5	
No	32,3	44,7	

# RESULTS: STATUS OF THE ENTIRE POPULATION IN RELATION TO VAPING AND SMOKING





- ➤ The stock of ex-smokers who are either vapers or ex-vapers increased from 2.6 to 4.5%.
- The share of dual users increases from 2.3 to 4.1%

# RESULTS: PERCEIVED HELP WITH SMOKING CESSATION



### Perceived cessation aid among ex-smokers:

Did e-cigarette help you quit smoking?

- ➤ In 2021, among ex-smokers who currently vape, 93.6% said that the e-cigarette helped them quit smoking
- Among ex-smokers and exvapers, 61.0% said that the e-cigarette helped them quit smoking.
- No significant variation between 2017 and 2021

	Ex-sm and cu		Ex-sm and ex-	
	vapers %		%	
	2017	2021	2017	2021
No	4,8	6,4	46,8	39,0
⁄es	95,2	93,6	53,2	61,0
Yes, without any other help	86,3	86,3	45,1	50,7
yes, combined with other aids	8,9	7,3	8,1	10,3

### **DISCUSSION / CONCLUSION**



#### **Main results**

- The prevalence of vaping in the adult population in France increased between 2020 and 2021
- Almost all vapers have an experience with tobacco (they are smokers or exsmokers)

### **Strengths and limitations**

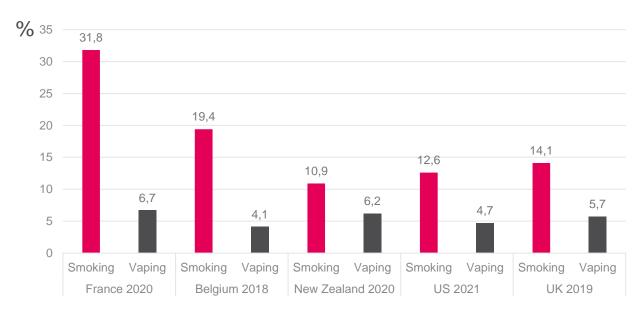
- Large-scale survey, with a random sampling methodology.
- Two limits related to the data collection method: declarative survey + drop in the participation rate
- The Santé publique France Health Barometer is a cross-sectional survey, provides scoping data. To investigate the causal link between smoking, vaping and trajectories, longitudinal and experimental studies are needed.

### **DISCUSSION / CONCLUSION**



#### **Comparison with other countries**

Vaping prevalence levels equivalent to other Western / Anglo-Saxon countries.



- But particularity in France: high level of smoking prevalence.
- Attention is paid to adolescents for whom smoking is in a process of denormalization.
- Very recent trends show a stability, or even an increase for certain populations, in the prevalence of smoking, at the same time as an increase in the prevalence of vaping: attention is paid to the risk of renormalization of tobacco.



# Thank you for your attention

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