

# AIRBONE CONTAMINATION LIFE-CYCLE MANAGEMENT MULTIDISCIPLINARY FRAMEWORK

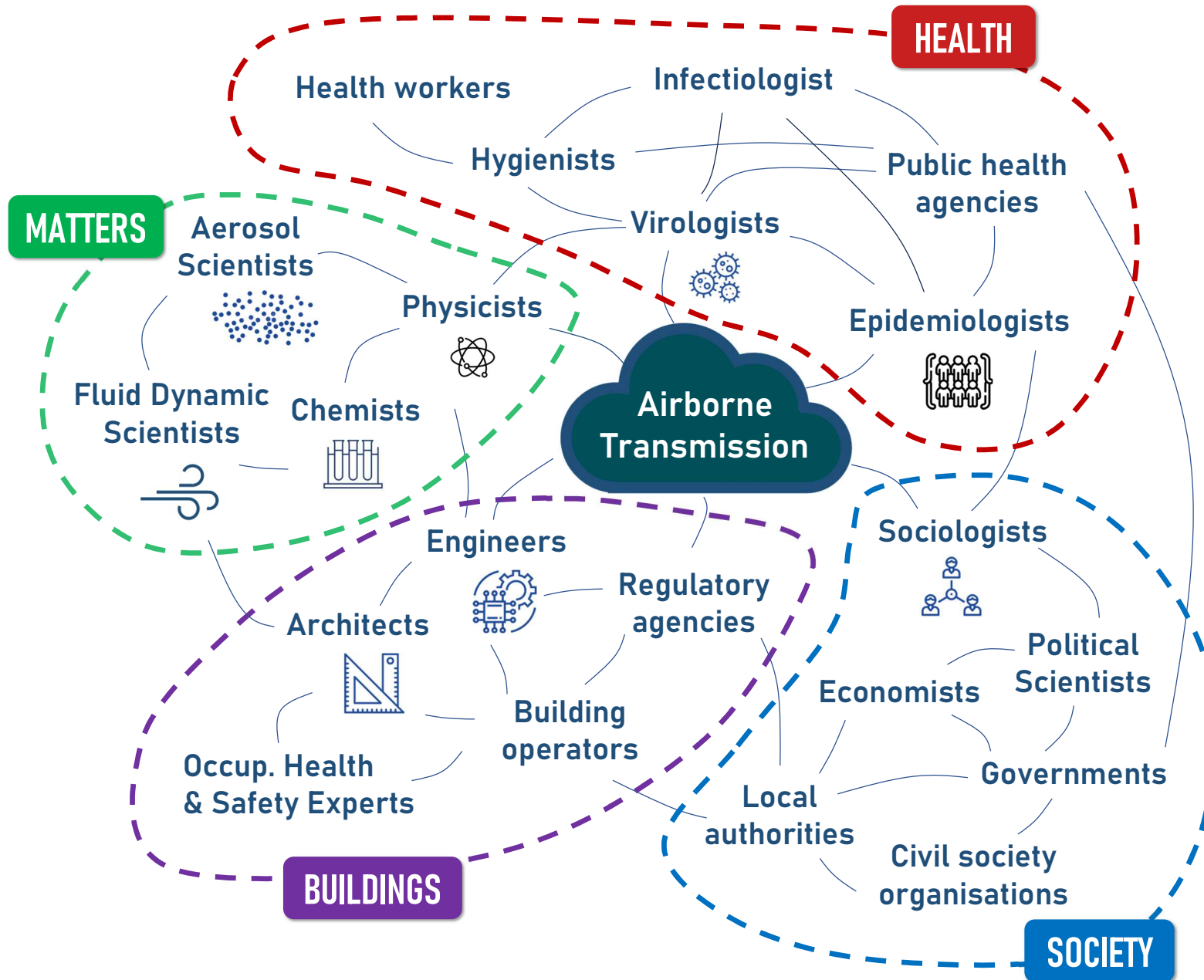


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[info@letsair.org](mailto:info@letsair.org)

# PERIMETER AND STAKEHOLDERS OF THE SYSTEM STUDIED

An infographic by @nousaerons available on letsair.org



# AIRBORNE PATHOGEN LIFE-CYCLE

An infographic by @nousaerons available on letsair.org

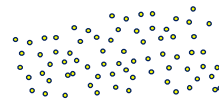
## ① DISSEMINATION

- by ballistic droplets
- by aerosol droplets
- by direct contact  
with mucosa surfaces (mouth, ...)



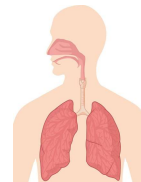
## ② STORAGE

- in the air  
in an aerosol droplet
- in a fomite  
on a surface (table, ...)



## ③ ENTRY

- by mucosal contact  
mouth, nose, eye
- by inhalation



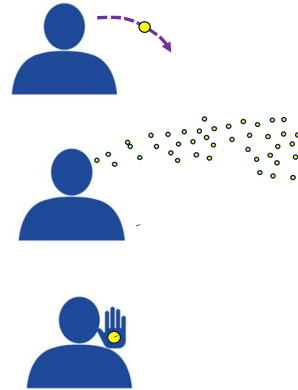
# AIRBORNE PATHOGEN LIFE-CYCLE MANAGEMENT

An infographic by @nousaerons available on letsair.org

## ① DISSEMINATION

## How to manage ?

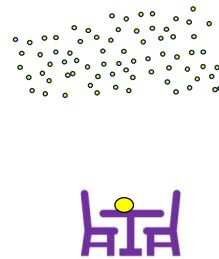
- by ballistic droplets
- by aerosol droplets
- by direct contact  
with mucosa surfaces (mouth, ...)



## ② STORAGE

## How to manage ?

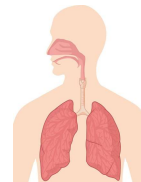
- in the air  
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## ③ ENTRY

## How to manage ?

- by mucosal contact  
mouth, nose, eye
- by inhalation



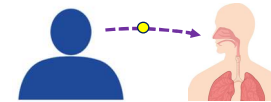
# DIFFERENT PATHS FOR A PATHOGEN

An infographic by @nousaerons available on letsair.org

## DIRECT CONTACT



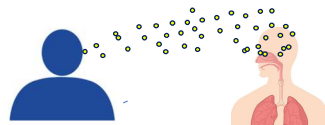
## DIRECT DEPOSITION



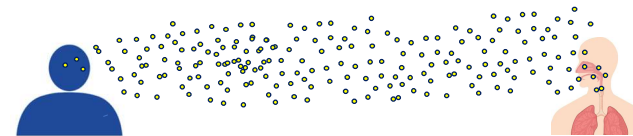
## INDIRECT CONTACT



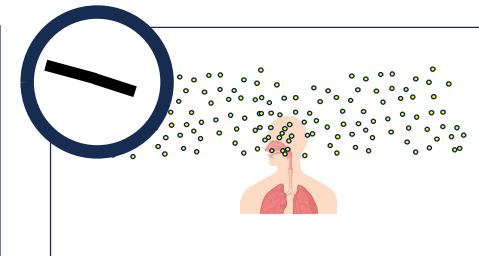
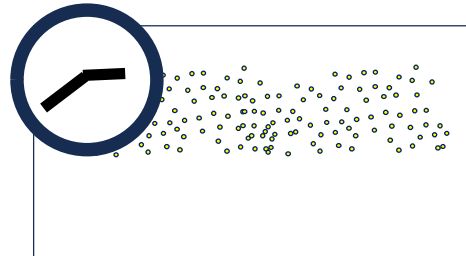
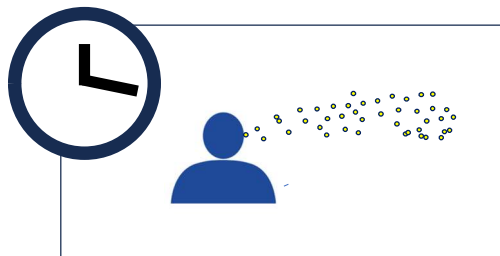
## AIRBORNE SHORT RANGE



## AIRBORNE LONG RANGE



## AIRBORNE & ASYNCHRONOUS



## RISK, A POLYSEMOUS CONCEPT



**In Sociology:** how is a hazard perceived or evaluated in a social group? How are representations socially differentiated?



**In Public health:** defining metrics to assess the probability of a health hazard occurring



**In Engineering:** propose models for multi-criteria optimization of a technical system over its entire life cycle.