Zero Waste Live!

7 April 2020 - 03.00 p.m. CET

ATTENTION:

Due to COVID- 19,

to the public.

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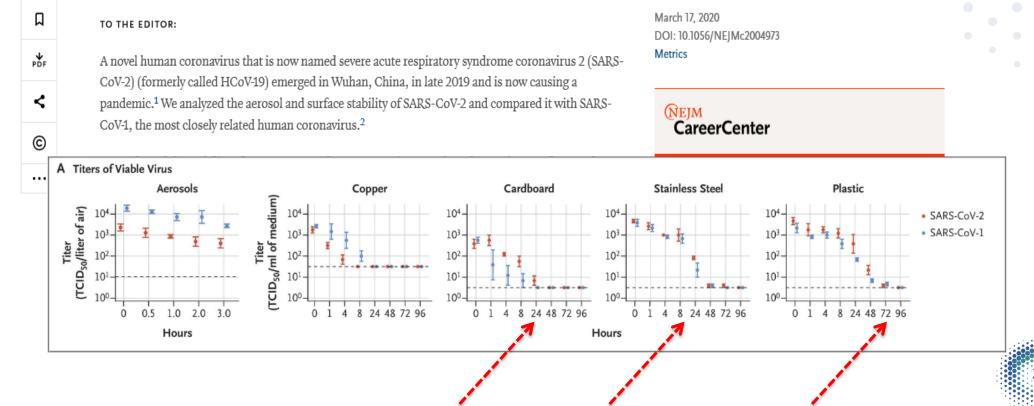


Outline of presentation

- waste and Covid19-safety: scientific background
- adaptation and safety at recycling sites and composting sites
- a mid-term vision: critical assessment of measures being considered/adopted by EC and various MSs



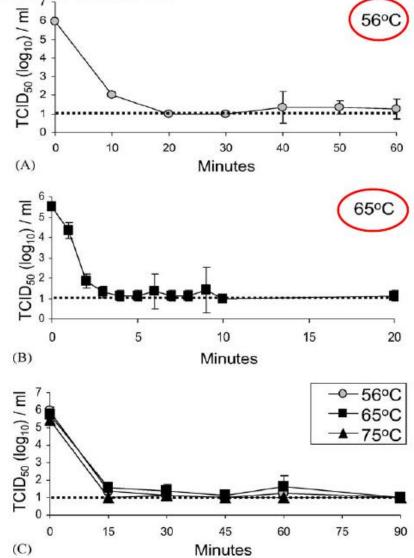




Inactivation of the coronavirus that induces severe acute respiratory syndrome, SARS-CoV.

Darnell et al. 2004. Journal of Virological Methods 121:85-91

Temperature Effects



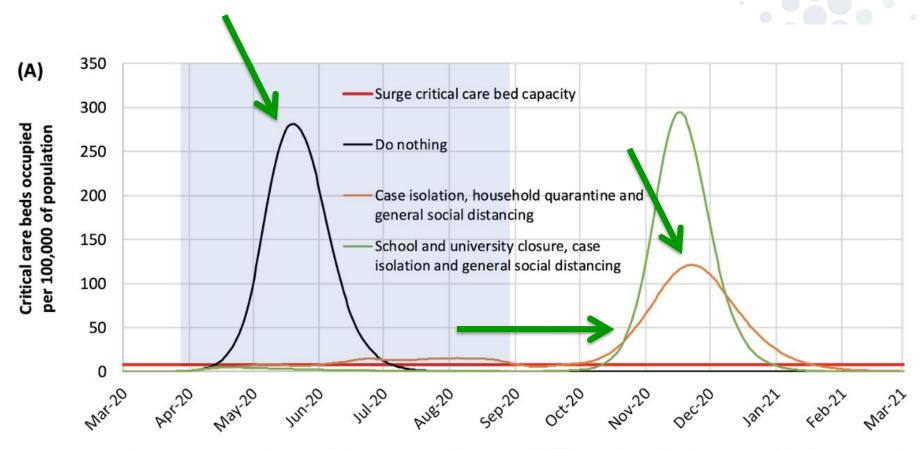


A first round of conclusions

- Composting a safe route
 - The process is ordinarily required to ensure sanitisation (pasteurisation + non thermal effects)
 - Compost sites traditionally accustomed to tackling biohazards
 - (Used to deal with virus-affected animal carcasses after viral outbreaks)
- Packaging waste safe to be handled after temporary storage
 - What may be a "safe" storage time?
- Biological stabilisation a suitable solution for residual waste, too



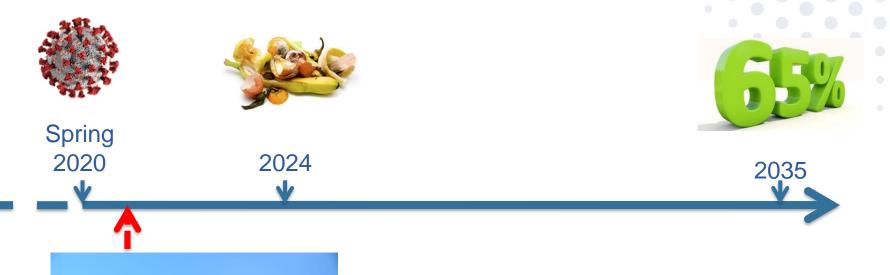
A mid-term vision



Source: Impact of non-pharmaceutical interventions (NPIs) to reduce COVID19 mortality and healthcare demand, Neil Ferguson et. all, Imperial College



Timelines, transitions







Municipal waste management and COVID-19 Summary of observed trends (March 2020)

GENERAL ADAPTATIONS TO MUNICIPAL WASTE SYSTEM

Households

with COVID-19

positive people

or with people

in mandatory

quarantine

Other

households

(HHs)

Civic amenity sites, reuse/repair centres

Closure or service reduction

On-demand services (bulky, garden,...)

Interrupted or reduced



Household waste

Street and containers cleaning

Specific instructions and procedures



Staff

PPE and other safety & health measures

Fringe benefits (e.g. children services)



Communication actions, offices closed, available by email/phone

SORTING RULES AT HOME

Masks, gloves, tissues and disposable cloths collected with mixed waste (in some cases tissues and handkerchiefs were before collected with bio-waste)

Mixed waste

Bin with pedal, 2 or more sealed bags, recyclables and biowaste with mixed waste



Recyclables, bio-waste

No source separation, households might be asked to keep at home for a certain amount of time WEEE. batteries, and other hazardous waste



Residual waste

Business as usual or 2 or more sealed bags



Recyclables, bio-waste

Business as usual, in case of temporary interruption of the service, households are invited to store at home dry recyclables

WASTE COLLECTION

Frequency collection modulated according to specific needs (staff shortages, health & safety measures reducing efficiency, mixed waste and biowaste prioritization)



In some

cases,

72 hours to

wait before

waste

disposal

Possibility of ad hoc services, keeping their waste separated from the

municipal stream (specific containers)

Frequency of collection may need to be increased



Mixed waste

WASTE TREATMENT

Derogation to the mandatory

preliminary mixed waste

treatment before its disposal may

be needed (either by way of

incineration or controlled landfill)

Treatment plant must rely as much as possible on automated

systems

Review of storage permits may be

needed (to safely treat waste

Incineration prioritised: MBTs continue with business as usual when they are highly automated (minimum involvement of operators), or controlled landfill



Residual waste

Frequency of collection may need to be increased



Residual waste

Business as usual, prioritising automated systems or preliminary storage

During this period, the reporting for recycling targets might be modified according to the increase of mixed waste

Recyclables, bio-waste

Business as usual, even if the frequency of collection may need to be reduced



Recyclables, bio-waste

Business as usual, prioritizing automated systems or preliminary storage

This graphic does not include recommendations or an exhaustive list but a reflection in terms of trends of what has been observed in the practices shared with ACR+



The EC initiative ("non paper")

- Aimed at providing guidance to Member States for adaptation in the transitional situation
- Keeps separate collection as a fundamental service for both ordinary households and – in general - Covid19-positive people
 - Derogations may be adopted by Member States
- No particular requirement for composting
- Treatment of **residuals**: "(...) incinerated in incineration or coincineration facilities or safely disposed of in controlled landfills"
 - Does not highlight the potential role of biological stabilisation
 - "safely pretreated and disposed of in controlled landfills"
- Requires temporary storage for reprocessing sites (9 days)



Last round of conclusions

- EC guidelines sufficiently solid and backed by science
 - Temporary storages may be revised
 - Management of residual waste may be finetuned
- Alignment of guidelines with EU roadmap on Circular Economy
 - Also transitional adaptation may be aligned
- The long term vision is beyond discussion



Be Safe, Stay Home, and #AndràTuttoBene



