

Zero Waste Live!

17 November 2020 - 06.00 p.m. CET



TEMPORARILY

HAS COVID-19 CHANGED ZERO WASTE?

CLOSED

COVID-19



Enzo Favoino

Scientific Coordinator at Zero
Waste Europe



WASTE MANAGEMENT DURING (AND AFTER) COVID-19

Will the pandemic impact on long-term strategies?

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Scientific Coordinator, Zero Waste Europe



Outline of presentation

- waste and Covid19-safety: **scientific background**
- **adaptation and safety** at recycling sites and composting sites
- Why **single use isn't safer** – rather, the contrary – and the rationale to keep a mid/long-term commitment to reduce
- a mid-term vision: **critical assessment** of measures being considered/adopted globally and in Europe



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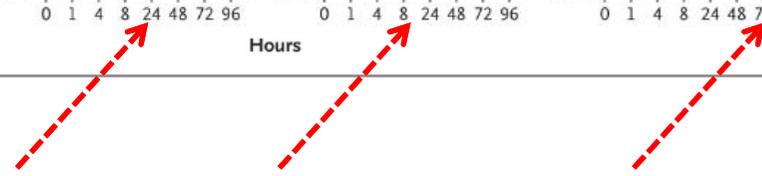
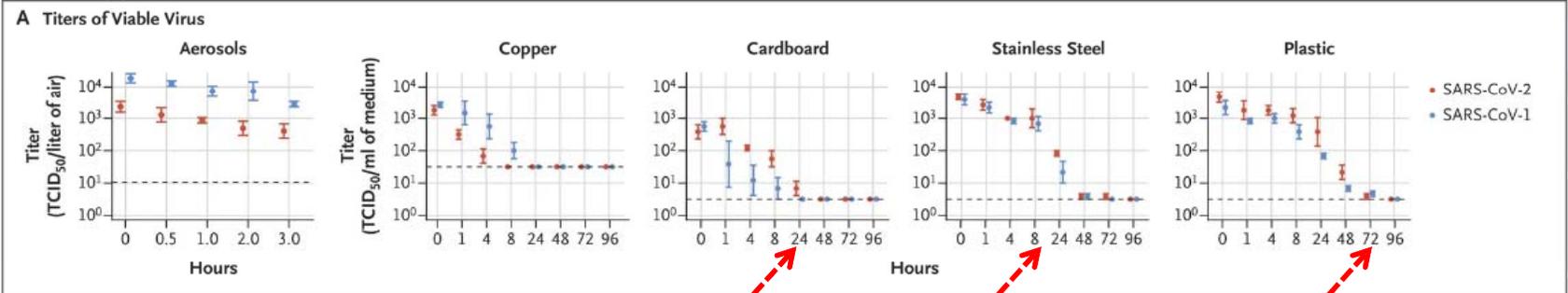
Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1

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TO THE EDITOR:

A novel human coronavirus that is now named severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (formerly called HCoV-19) emerged in Wuhan, China, in late 2019 and is now causing a pandemic. We analyzed the aerosol and surface stability of SARS-CoV-2 and compared it with SARS-CoV-1, the most closely related human coronavirus.

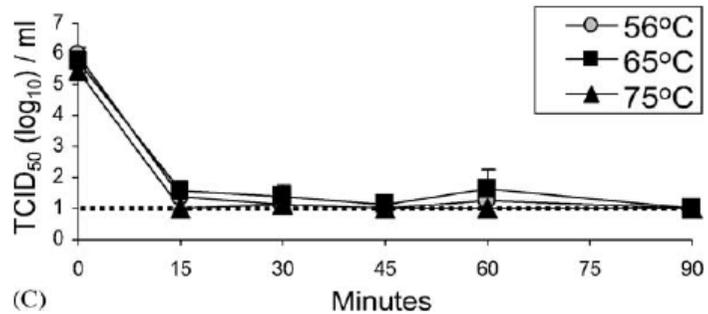
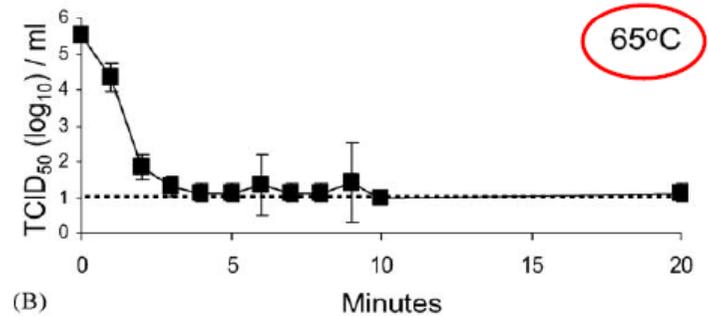
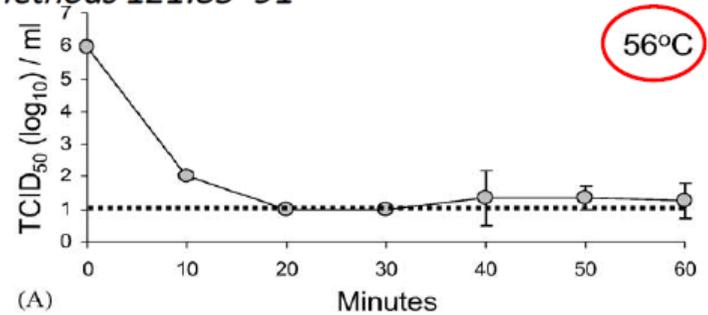
March 17, 2020 DOI: 10.1056/NEJMc2004973 Metrics



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



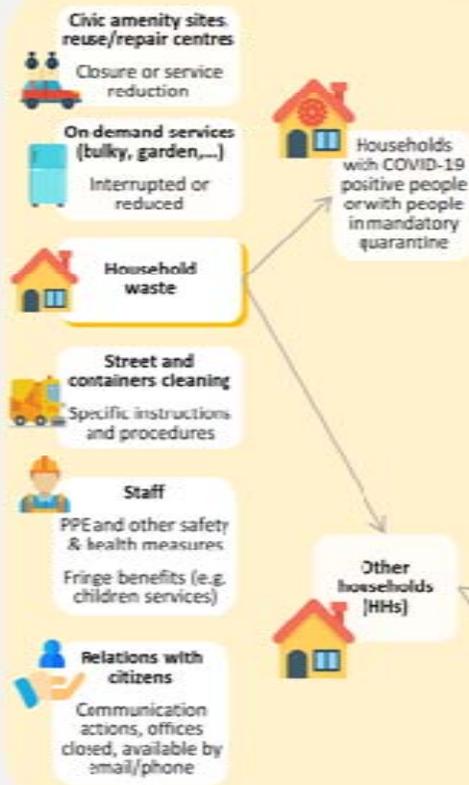
A first round of conclusions

- **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**
- **Biological stabilisation** a suitable solution for residual waste, too

Municipal waste management and COVID-19

Summary of observed trends (March 2020)

GENERAL ADAPTATIONS TO MUNICIPAL WASTE SYSTEM



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



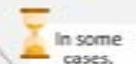
Residual waste

Business as usual or 1 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



In some cases, 72 hours to wait before waste disposal

WASTE COLLECTION

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



Mixed waste

Possibility of ad hoc services, keeping their waste separated from the municipal stream (specific containers)

Frequency of collection may need to be increased



Residual waste

Frequency of collection may need to be increased

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

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 system!

Review of storage permits may be needed (to safely treat waste without infectious load)



Mixed waste

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



Residual waste

Business as usual, prioritising automated systems or preliminary storage



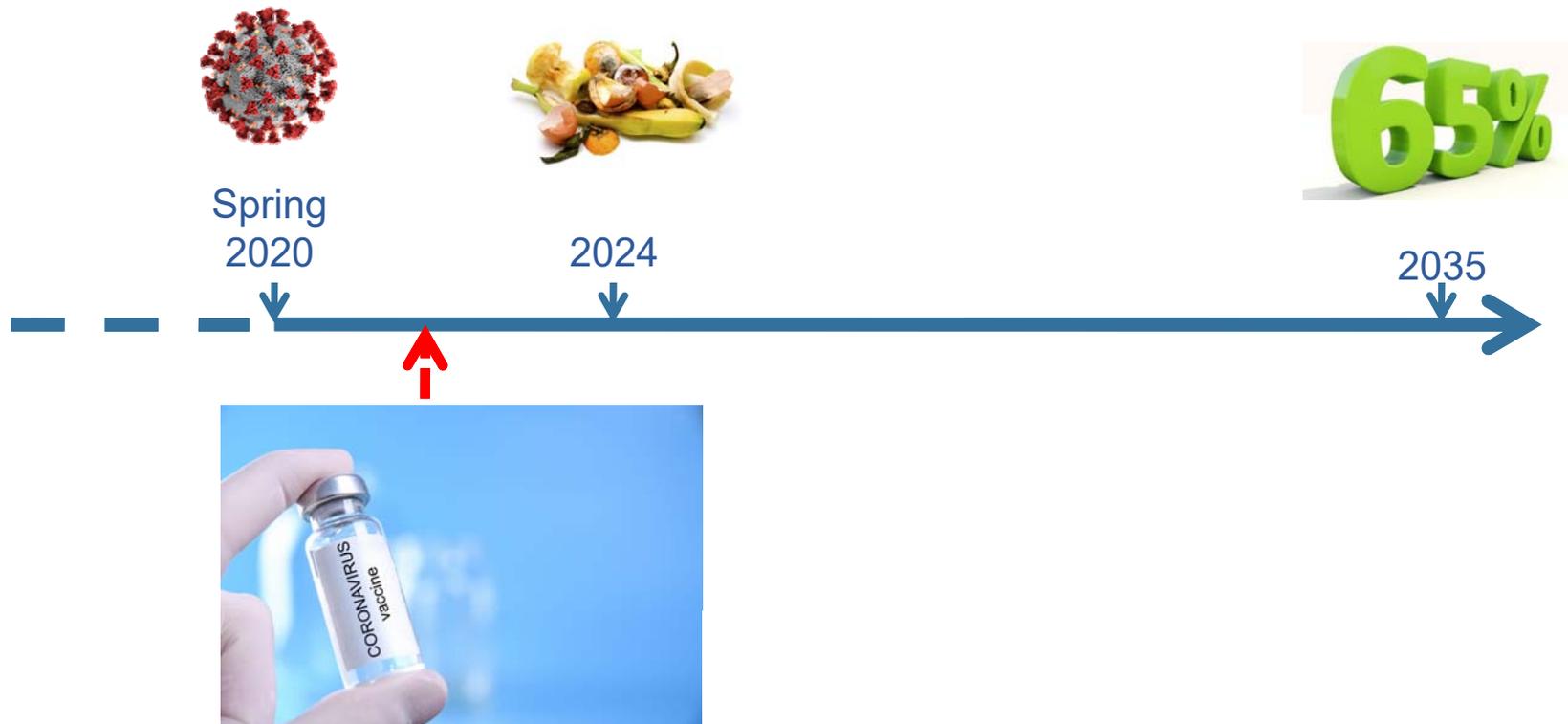
Recyclables, bio-waste

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+



Timelines, transitions





Waste management in the context of the coronavirus crisis

14 April 2020



In this unprecedented crisis, we are working with the Member States and waste operators across the EU to address the challenge of ensuring a high level of protection of human health and the environment. Proper waste management is part of the essential services underpinning the well-being of our citizens delivered by numerous companies dealing with waste and keeping the circular economy going.

Commissioner Virginijus Sinkevičius



The EC guidelines

- 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**
- Requires **temporary storage** for sorting/recycling sites (3 days should suffice)



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Industry should not exploit COVID-19 to push more plastic pollution

by Perry Wheeler

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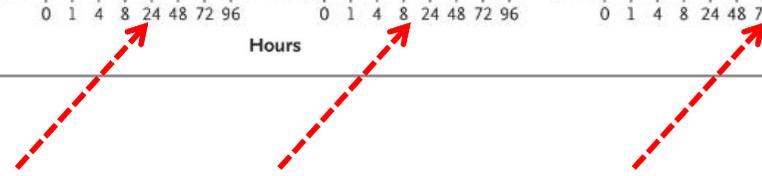
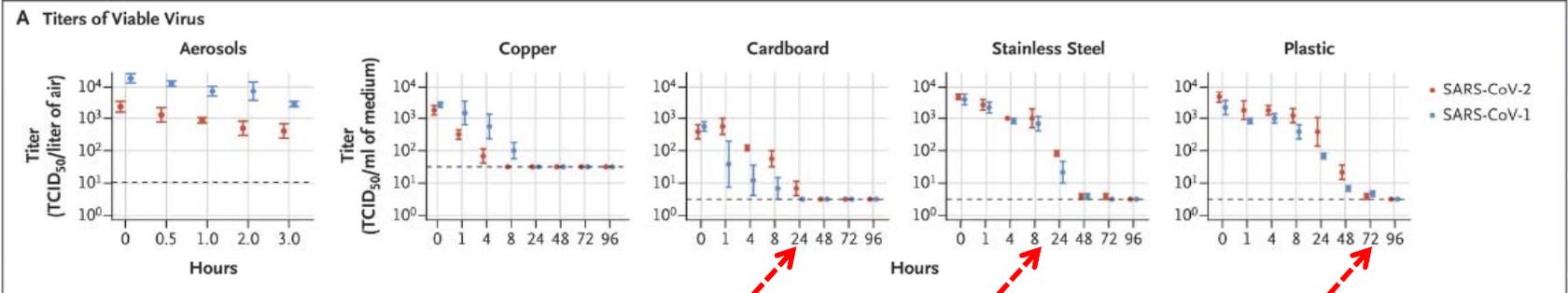
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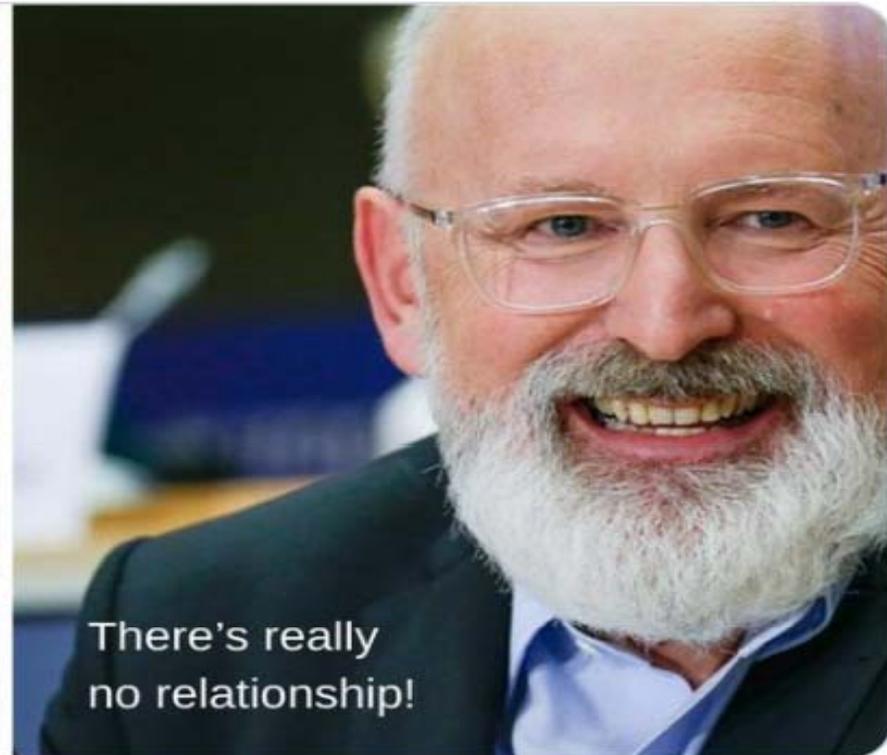


Timelines, transitions





I really did not appreciate people writing to me and using the need for personal protective equipment as a reason not to have a ban on single-use plastics.



There's really no relationship!

Last round of conclusions

- **EC guidelines** sufficiently solid and backed by science
 - No deviation from key role of recycling/composting
- **Alignment** of guidelines with long-term roadmap on Circular Economy and UN SDGs
- **Plastic reduction strategies** fully confirmed
- The **long term vision** is beyond any discussion





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