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SCIENCE SUPPORTING ACCELERATED DELIVERY

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Important Information

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Additional Information

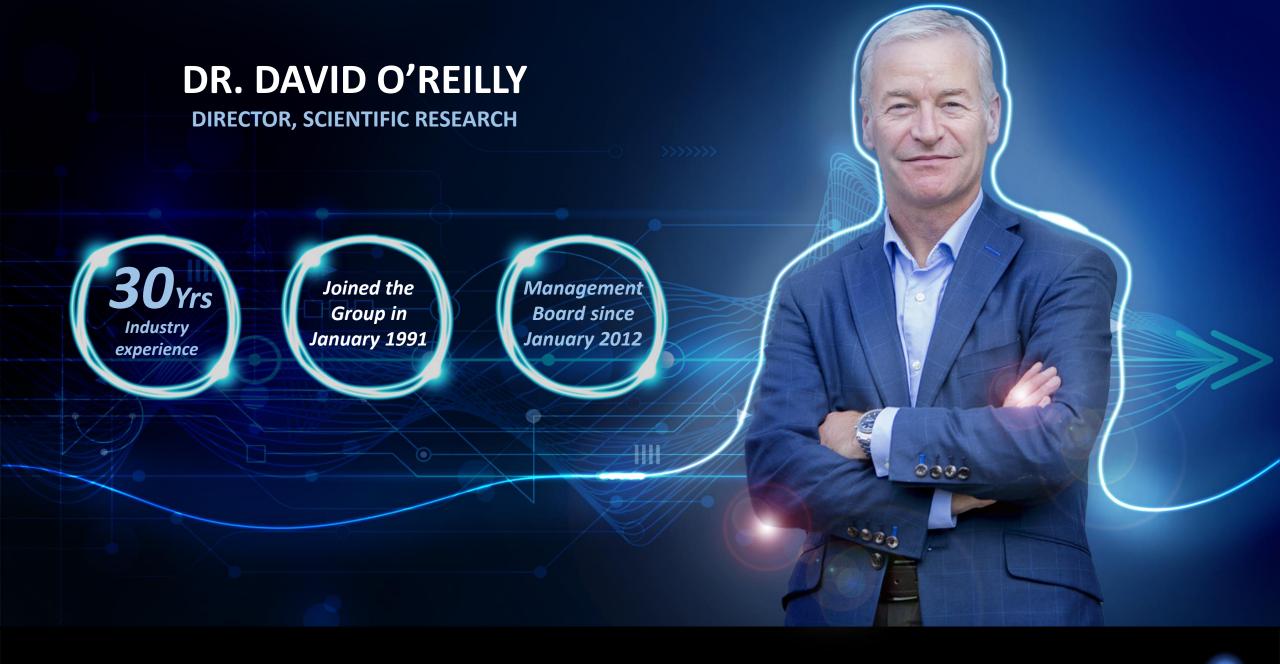
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Our vapour product Vuse, and oral products Grizzly, Camel Snus and Kodiak, which are only sold in the US, are subject to FDA regulation and no reduced-risk claims will be made to these products without agency clearance.

Revision

For presentation purposes within this presentation, all prior periods have been revised to be consistent with the current reporting structure. All of the information in this presentation is in respect to continuing operations, revised for the fully retrospective adoption of IFRS 15.







Key messages

- We are developing a strong scientific foundation to underpin our PRRP portfolio and we are making good progress at closing any remaining gaps
- Science is powering our technology and product innovation. For example, we have used science to develop a potentially game-changing vapour technology
- Our science is enabling us to make and defend hundreds of consumer-facing claims as well as underpinning our regulatory submissions
- We are building even more trust in our PRRPs by amplifying our science through extensive communication



Our scientific research is extensive and underpins our broad portfolio of PRRPs¹



Substantially reduced toxicants is not sufficient alone to determine reduced risk



¹ We use the term PRRPs to cover tobacco and nicotine products that, based on the available science, have been shown to be reduced risk; are likely to be reduced risk; or have the potential to be reduced risk, in each case if switched to exclusively as compared to continuing to smoke cigarettes.

Current overall state of the science of our PRRP portfolio

- THP | Our scientific evaluation to date suggest our THP product, glo has the potential to be significantly less risky than cigarettes and we are establishing more evidence to support this
- Vapour | Several independent bodies 1 have concluded that vaping can be considered to be ~95% safer than smoking cigarettes
- Hybrid | Our Hybrid product, glo iFuse has a very similar emissions profile to our vapour products in
- US Moist Snuff and Swedish Snus 2,3 | These have epidemiological evidence that supports their reduced risk status as compared to smoking cigarettes
- Modern Oral | Products such as Epok and Lyft have lower levels of toxicants than traditional tobacco oral products and therefore arguably have the potential to be even lower risk

Our vapour product Vuse, and oral products Grizzly, Camel Snus and Kodiak, which are sold in the US, are subject to FDA regulation and no reduced-risk claims will be made as to these products without agency clearance.



¹Such as the Royal Collage of Physicians and Public Health England

² Lee PN, Hamling, J (2009). Systematic review of the relation between smokeless tobacco and cancer in Europe and North America. BMC Medicine 7: 36.

³ Bofetta P, Hecht S, Gray N, Gupta P and Straif K (2008). Smokeless tobaccos and cancer. Lancet Oncology 9: 667-675.

There is growing external support for PRRPs, especially vaping and oral – science on THP continues to be developed

> Broader regulatory support for vaping and markets going from prohibition to regulation



GOVERNMENT OF CANADA

"Switching from tobacco cigarettes to vaping products will reduce a person's exposure to many toxic and cancer-causing chemicals"



NEW ZEALAND MINISTRY OF HEALTH

"Smokers switching to vaping products are highly likely to reduce their health risks and for those around them"

> Slower growing support for THP, science still being undertaken mainly by the industry

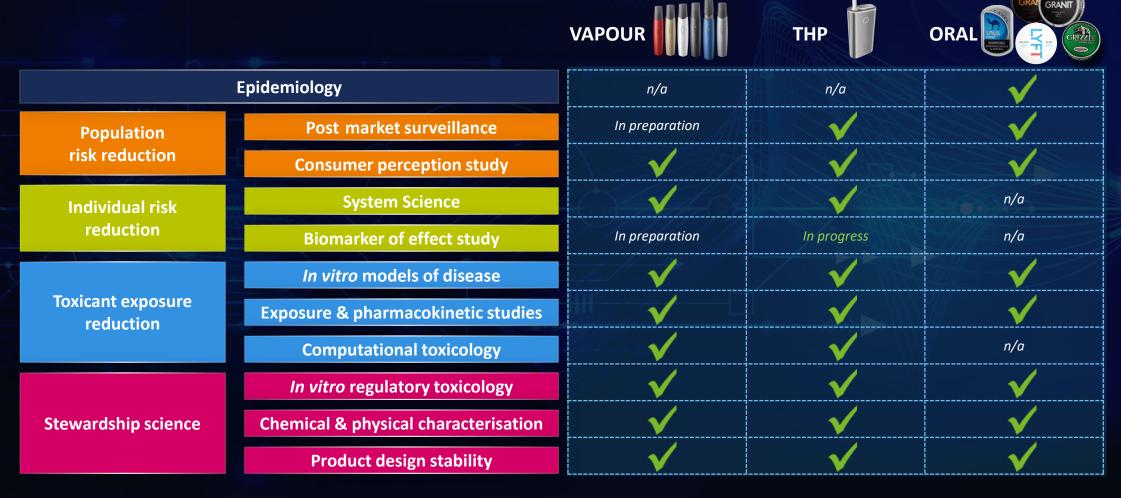


REPORT OF THE UK PARLIAMENTARY SELECT COMMITTEE ON SCIENCE AND TECHNOLOGY

"Heat-not-burn' products contain tobacco which is heated rather than combusted, and is therefore likely to be less harmful compared to conventional cigarettes. This (industry) research therefore needs to be independently validated before it is used to inform policy, but nevertheless pointed to an early evaluation of likely cancer risk which assessed heat-not-burn products to have about 10% of the harm of conventional cigarettes"



Multiple scientific studies have been undertaken on all our PRRPs and we have made great progress to date



Epidemiology studies for Oral Products have not been conducted for all Brands shown.







We are making good progress with our long-term clinical study on glo



STUDY DESIGN

- Multi-centre 12-month clinical trial in the UK
- Compares continue to smoke, switch to glo and quit completely
- Measures biomarkers of both exposure and biological effect

PARTICIPANT COMPLIANCE IS KEY

- Intense focus on participant compliance
- Using a unique biomarker to monitor and segregate solus users

REPORTING POINTS

- Will report after 90 days, 180 days and 360 days
- > Anticipated publications due:
 - 90 days 2019
 - 180 days 2020
 - 360 days 2021



We have submitted a large dataset to the Italian Health Ministry on the reduced risk potential of glo to gain PRRP claims

More than 4000 pages of documentation

26 separate studies

Studies include chemistry, in vitro toxicology, indoor air quality, clinical biomarkers, pharmacokinetics, likelihood to use and population modelling

Will be supplemented with longterm clinical data on changes in biomarkers of exposure and relative risk as this becomes available

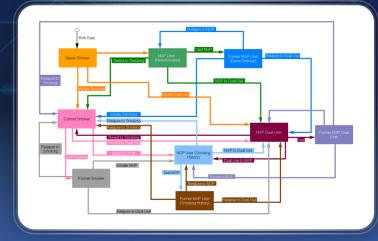
- > Italy is the only country outside of the US with a regulatory procedure to consider reduced risk
- > Submitted at end of 2018 in accordance to Article 20 of Legislative Decree No 6 of 12 January 2016
- > Licencing process based on a 135 day procedure; formal response expected May 2019



We have completed our first post-market surveillance study in Japan that will help show the potential positive effects of glo on population health



- Our population model can inform regulators of the potential reduction in the number of premature years of life lost because of the introduction of a PRRP
- Post-market surveillance studies provide real data to refine the model's assumptions









A revolutionary advance from coil-and-wick to proprietary new-to-world distiller plate technology

EXISTING COIL-AND-WICK TECHNOLOGY

- Absorbent wick
- Electrical heating coil
- > Small surface area
- > Risks of dry out
- Variable particle size

GEN1 glass fibre

GEN2 cotton

GEN3 ceramic







DISTILLER PLATE PROPRIETARY TECHNOLOGY

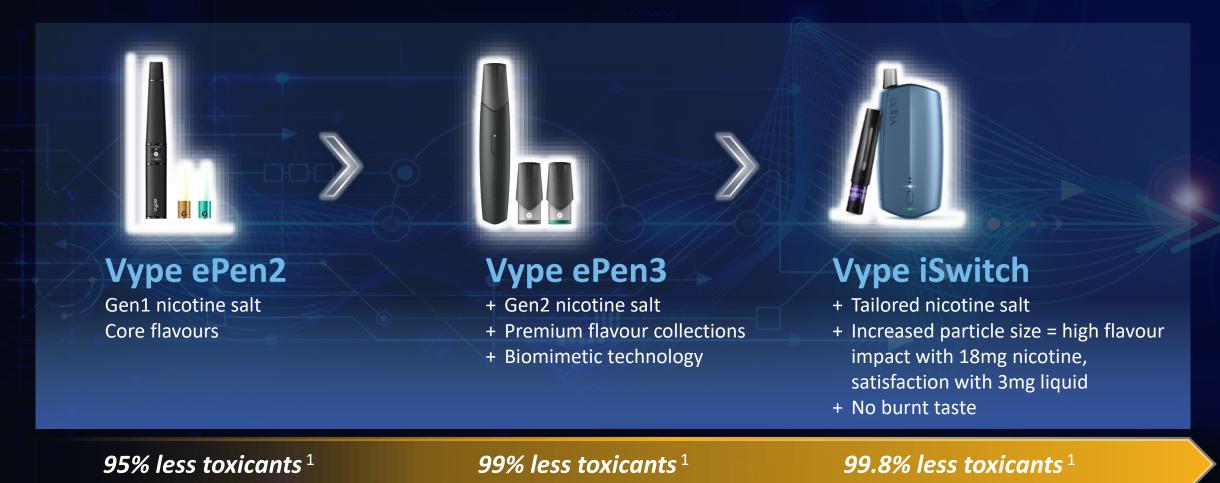
- > 10x larger surface area vs. best in class cotton wick (ePen3)
- Large aerosol particle size range
- Advanced temperature control
- > Dynamic wicking
- > Improved sensory performance
- > Improved consumer satisfaction
- > Less e liquid nicotine required

Steel matrix x200 magnification





Vype iSwitch with distiller plate technology gives improved consumer satisfaction with less nicotine, more aerosol and with much lower toxicants



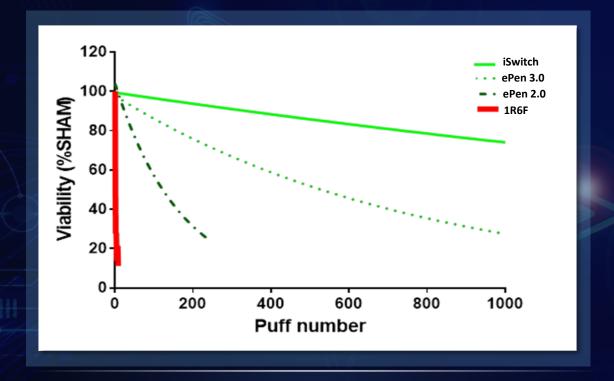
¹ When compared to a reference cigarette and measuring WHO TobReg9 toxicants

Substantially reduced toxicants is not sufficient alone to determine reduced risk



Vype iSwitch - Unprecedented reductions in biological activity seen to date in our laboratory tests of vapour products

Comparisons	Number of lung-disease- relevant genes perturbed
Air vs Reference Cigarette* (24 hrs)	5603
Air vs Vype iSwitch (24 hrs)	0



Vapour from Vype iSwitch had no impact on lung disease relevant gene perturbations in a 3D cellular system using human airway epithelial cells

These results are not sufficient alone to determine reduced risk



In extremis *in vitro* testing for cytotoxicity shows all **Vype**products are much less toxic than cigarette smoke, with Vype

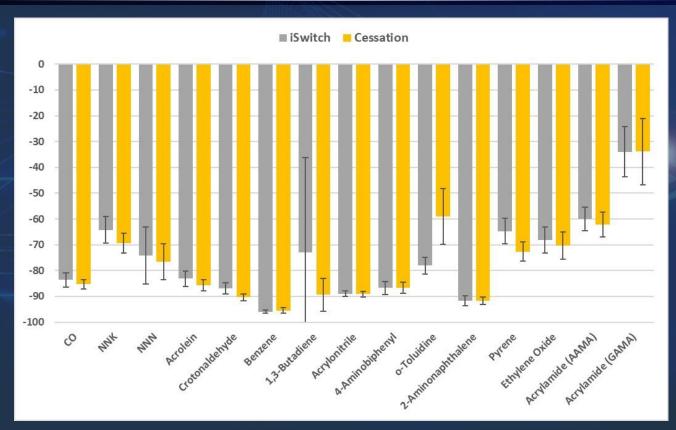
iSwitch the least toxic

^{*}Reference cigarette used 1R6F

First clinical study on Vype iSwitch confirms large reduction in toxicant exposures

AVERAGE % REDUCTIONS FROM BASELINE

- 14 BoEs for cigarette smoke toxicants measured
- All BoEs significantly reduced for subjects switching to Vype iSwitch*
- In most cases BoEs reduced to levels similar to cessation



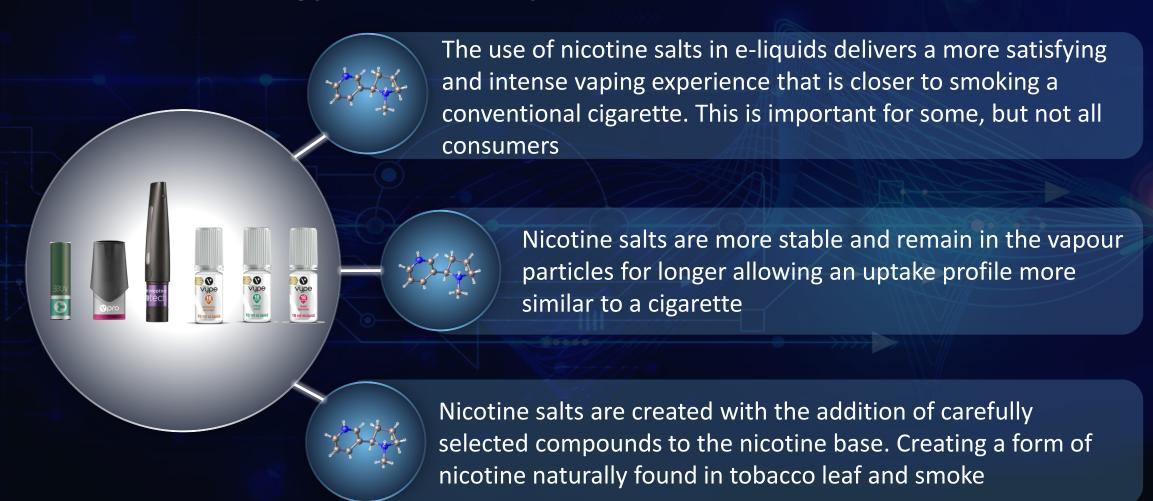
*o Toluidine significant after one inexplicably high value removed from cessation arm (sensitivity test)

Gaça, M & Proctor, C. Application of *in vitro* processes for the assessment of next generation tobacco and nicotine products: a tobacco company perspective. Oral presentation at Society of Toxicology, 13 March 2019. www.bat-science.com/library/invitro

These substantially reduced toxicant exposures are not sufficient alone to determine reduced risk

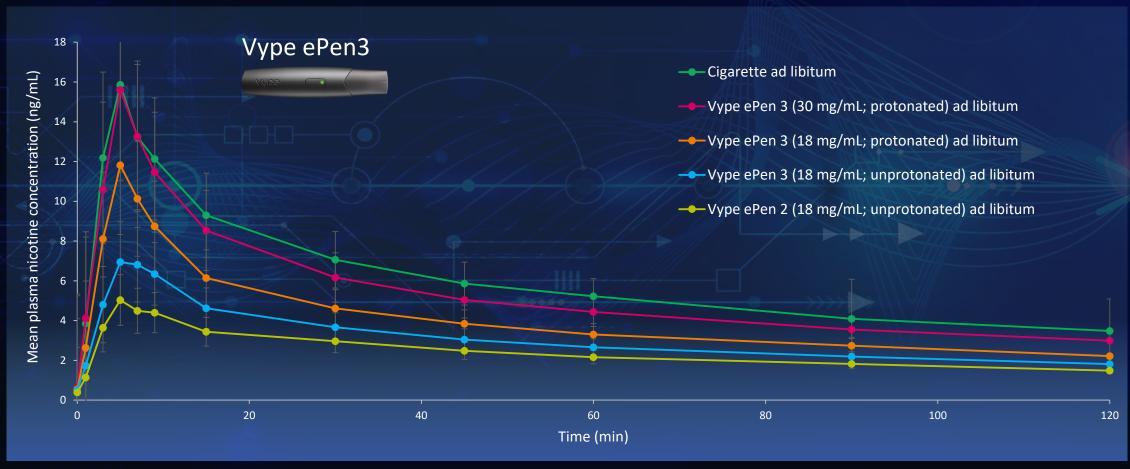


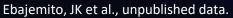
We have extensive experience in nicotine salts and were the first to use this technology commercially in 2012





Nicotine salts in conjunction with device and e-liquid improvements have allowed us to achieve nicotine delivery closer to that of a cigarette





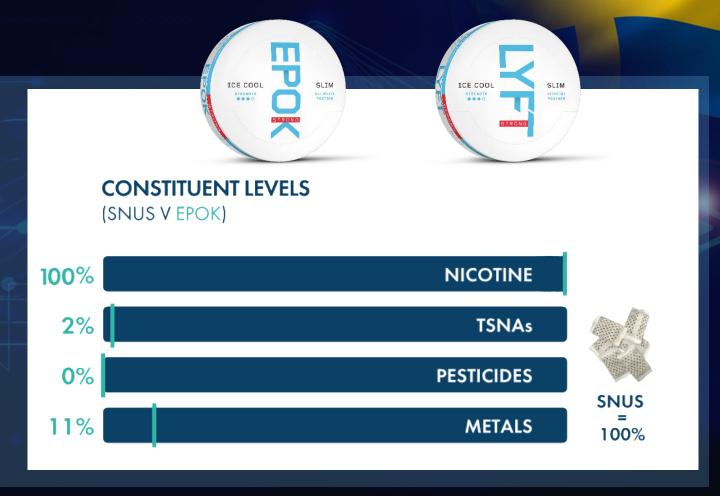






Modern oral – potentially even lower risk than snus

- Epok and Lyft have a fraction of the levels of toxicants than traditional Swedish snus
- Snus has been shown to be reduced risk compared to smoking through long-term epidemiology
- We have begun the science to inform additional consumer facing claims for Modern oral









We are communicating to consumers about the safety, quality and performance of our products with hundreds of science-based claims

As at end of February 2019

VAPOUR

498 claims supported by **23** scientific publications

+650% vs. Oct 17

THP

286 claims supportedby 23 scientificpublications

+750% vs. Oct 17



Substantiating claims relating to:

Toxicant Reduction

Indoor Air Quality

Hygiene

Consumer/ Sensory/Design Product performance



Our award-winning Science and Technology Report 2017/18

Leading the way in transparency and communication and building trust and credibility in our PRRPs







Making science a key component of our market launches



Product launches – media interviews – roadshows – conference presentations – and other stakeholder engagements



Summary

- Science is powering our Transforming Tobacco journey
- > We are near completion of the full testing programme for glo, with a long-term clinical study underway
- We have been using our nicotine salts science for several years across our vapour portfolio
- With Vype iSwitch we have shown that it is possible to both significantly improve satisfaction and reduce toxicant emissions compared to existing vapour products
- > Modern oral products like Epok and Lyft have the potential to be even lower risk than snus
- Our science is enabling us to make and defend hundreds of consumer-facing claims as well as underpinning our regulatory submissions
- We are building even more trust in our PRRPs by amplifying our science through extensive communication



