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## THE ACCELERATED STATE

HP INC

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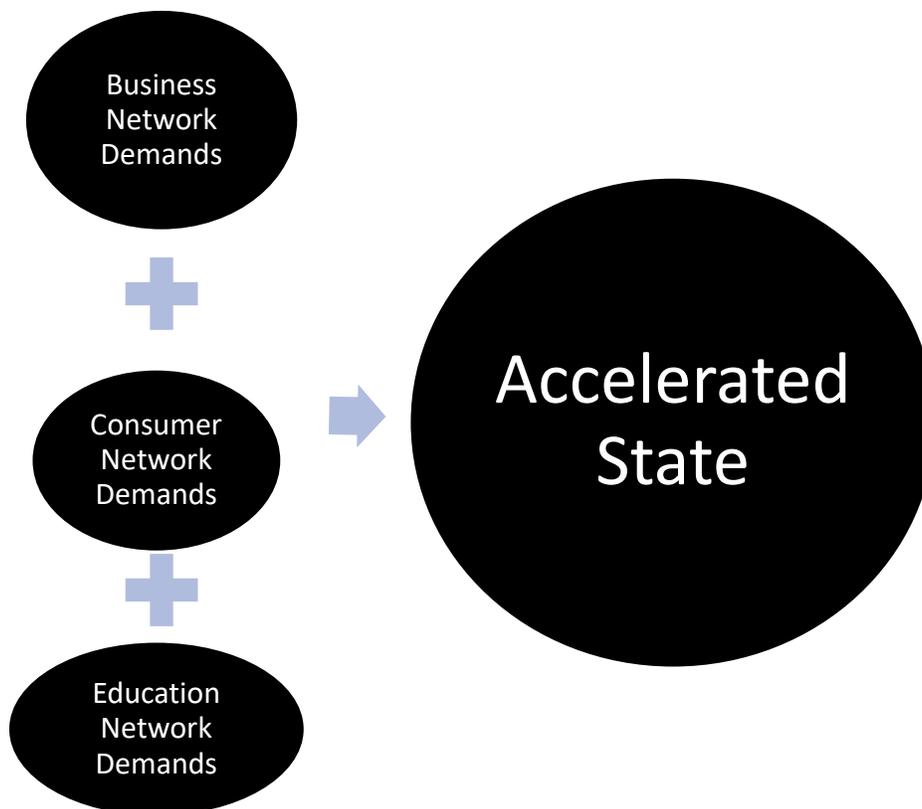
## ***The Accelerated State***

These are unprecedented times. The pandemic and the accompanying set of economic issues, including the recession (now officially over), has resulted in a dramatic increase in the remote work models for client computing. It is anticipated that there will be an increase in remote work in a hybrid model in the post-pandemic era.

This new scaling of remote access and working from home (and learning from home) has resulted in a set of new issues to be addressed and has further exacerbated many problems that were already known but without an approach or solution.

The disclosure identifies the issues created by an accelerated migration towards remote work and the resulting saturation of existing networking strategies, including available bandwidth. The disclosure identifies the variables in assessing available capacity and provides a methodology, process, and methods to quantify the impact.

The elements that place the demand on the accelerated state include the variables of collaboration, business computing, gaming, social media, internet browsing, shopping, and learning. The demand for networking bandwidth is not only for capacity but also quality capacity, suggesting that the end-user experience is part of the assessment. Adding these quantitative and qualitative aspects makes the accelerated state methodology unique.



Being able to slice network capacity by segmenting the work being performed is a key to the methodology. If all elements are treated equally, saturation becomes impossible to prioritize if that needs to occur with bandwidth.

The Accelerated State identified further implications of the Digital Divide and suggests that deferring to address the problem set ultimately resets everyone's capacity. The Digital Divide has almost been considered an educational issue; however, with the dramatic increase in telemedicine, it is now identified as a wellness issue as well.

"Kicking the can down the road" to address the digital device is no longer viable. It does impact all end users, regardless of the current access.

Closed Loop Lifecycle Planning© concludes – *"that if you cannot quantify it, it does not count."* "It," in this case being networking bandwidth.

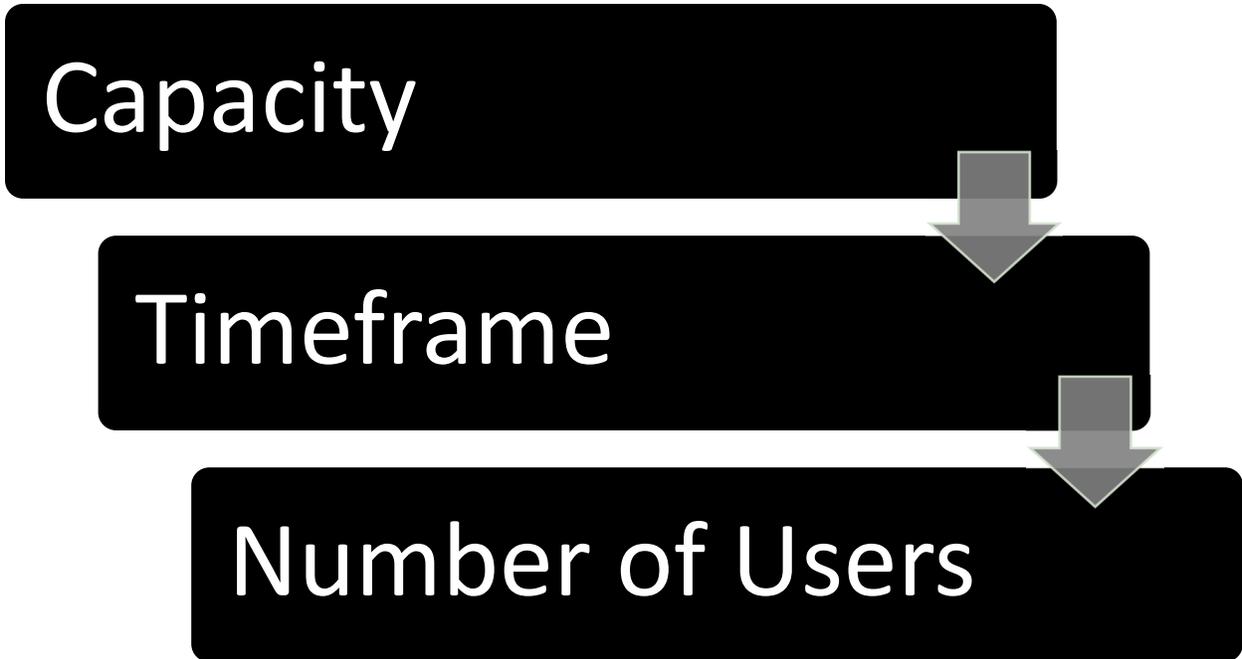
By commencing with identifying the differing types of data based upon the potential impact (low, medium, or high) and the profile of the data stream (bursty or lengthy), we create a methodology based upon different content vectors.

Then, by adding numerical values to the broader data types, an algorithm can be created to assess the impact and prioritization of the workload.

For definition purposes a series of tables have been created to further drive the methodology to estimate potential volumes, end-users, and traffic.

It would be an error to assume how the demographics play a role in the Accelerated State. While Millennials and GenZ have preferences, their end users include all generations of end-users, but for different usage reasons.

The question of capacity is a consideration that is pervasive. You begin with a capacity of 100% then adjust based upon actual or projected usage. From there, a prioritization algorithm is to be leveraged to balance the access capacity and speed.



The conclusion of the disclosure suggests that unless a methodology is agreed upon and an approach to optimize developed. The Accelerated State will continue to be unmanaged for the dimensions of the priorities required in our society today.

*Disclosed by Cody Gerhardt and Bruce Michelson, HP Inc.*