



**JABIL**  
HEALTHCARE

In recent years, the number of people who have been diagnosed with cancer has increased significantly. This is due to a number of factors, including an increase in the number of people who are living longer, a decrease in the number of people who are smoking, and an increase in the number of people who are being screened for cancer. The most common types of cancer are lung cancer, breast cancer, and prostate cancer. The most common cause of cancer is smoking, which is responsible for about 30% of all cancer deaths. Other causes include alcohol consumption, obesity, and a diet high in fat and sugar. The good news is that many types of cancer can be treated successfully if caught early. Regular checkups and screenings can help detect cancer early, when treatment is most effective.

There are many factors that can increase the risk of developing cancer. These include smoking, drinking alcohol, being overweight or obese, and eating a diet high in fat and sugar. Some people also have a family history of cancer, which can increase their risk. However, many people who develop cancer do not have any of these risk factors. This is because cancer is a complex disease that can be caused by a variety of factors, including genetic mutations and environmental factors. The good news is that many types of cancer can be treated successfully if caught early. Regular checkups and screenings can help detect cancer early, when treatment is most effective.

There are many ways to reduce the risk of developing cancer. These include not smoking, drinking alcohol in moderation, maintaining a healthy weight, and eating a diet high in fruits and vegetables. Regular checkups and screenings can also help detect cancer early, when treatment is most effective. If you have a family history of cancer, you may want to talk to your doctor about getting screened more frequently. The good news is that many types of cancer can be treated successfully if caught early. Regular checkups and screenings can help detect cancer early, when treatment is most effective.

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5g'a YX]WU`XYj ]W`a Ubi ZUWh fYfgbUj ][ UH`h`Y`a UbmfY[ i `Uhc fm\i fX`Yg`hc `Uddfcj Y`U`  
fYz fV]g\YX`cfa i `h]i gYfa YX]WU`XYj ]W`z`h`Y`fY ]gU`gc`h`Y`c`Vg`U`WY`c`Zd`U`h]Y`b`h]U`W`W`d`h]b[ `.  
h`Y`U`h`a`Y`b`h`k` ]h`U`f`Y`z` fV]g\YX`XYj ]W`":`c`f`b`c`k`z`h]g`i`b`\_`Y`m`h`U`h`h`Y`a`Y`X`]`W`U``X`Y`j` ]`W``]`b`X`i`g`f`m`  
k` ]`h`f`U`b`g`z`Y`f`h`c`U`a`c`X`Y`k` \`Y`f`Y`z` fV]g\YX`cfa i `h]i gYfa YX]WU`XYj ]W`g`U`f`Y`h`Y`b`c`f`a`z`  
Vi`h`h`c`a`Y`Y`h`h`Y`f`g`g`U`]`b`U`V`]]`m`i`[`c`U`g`z`h`Y`f`Y`U`f`Y`a`U`b`m`i`g`a`U`":`]`a`d`f`c`j`Y`a`Y`b`h`g`h`U`h`k` ]`a`U`\_`Y`  
U`V`][`X`]`Z`Y`f`Y`b`W`k` \`Y`b`]`b`h`c`X`i`W`X`h`c`h`Y`d`f`c`X`i`W`h`]`Z`Y`W`h`W`Y`"5`d`f`c`W`f`g`g`k` \`Y`f`Y`X`Y`g`][`b`  
Z`c`f`g`g`U`]`b`U`V`]]`m`]`g`U`b`]`b`h`Y`[`f`U`d`U`f`h`c`Z`h`Y`W`c`b`W`d`h`U`X`Y`g`][`b`d`f`c`W`f`g`g`k` ]`Y`b`g`f`Y`h`U`h`  
Y`b`j`]`f`c`b`a`Y`b`h`U`U`b`X`g`g`U`]`b`U`V`]]`m`i`W`c`b`g`]`X`Y`f`U`h`c`b`g`U`f`Y`Y`Y`j`U`h`X`h`c`U`g`]`a` ]`U`f`Y`j`Y`U`g`  
f`Y`[`i`U`h`c`f`m`z`z`b`W`h`c`b`U`z`U`b`X`Vi`g`]`b`Y`g`g`f`Y`e`i` ]`f`Y`a`Y`b`h`g`"5`X`Y`g`][`b`Z`c`f`g`g`U`]`b`U`V`]]`m`d`f`c`W`f`g`g`  
g`l`c`i`X`W`c`j`Y`f`h`Y`Y`b`h`]`f`Y`d`f`c`X`i`W`h`]`Z`Y`W`h`W`Y`f`Z`f`c`a`X`Y`g`][`b`h`c`X`]`g`d`c`g`U`f`U`b`X`b`Y`Y`X`g`]`b`d`i`h`  
Z`f`c`a`U`":`g`U`\_`Y`l`c`X`Y`f`g`]`b`j`c`j`Y`X`"

# Healthcare Early Design Stage Process Elements

The early design stage process elements are divided into three main phases: Concept Selection, Detailed Optimisation, and Detailed Simulation. The process starts with a high-level concept selection, followed by a detailed optimisation phase where multiple design options are evaluated and refined. Finally, the selected design undergoes detailed simulation to validate its performance and identify any potential issues.

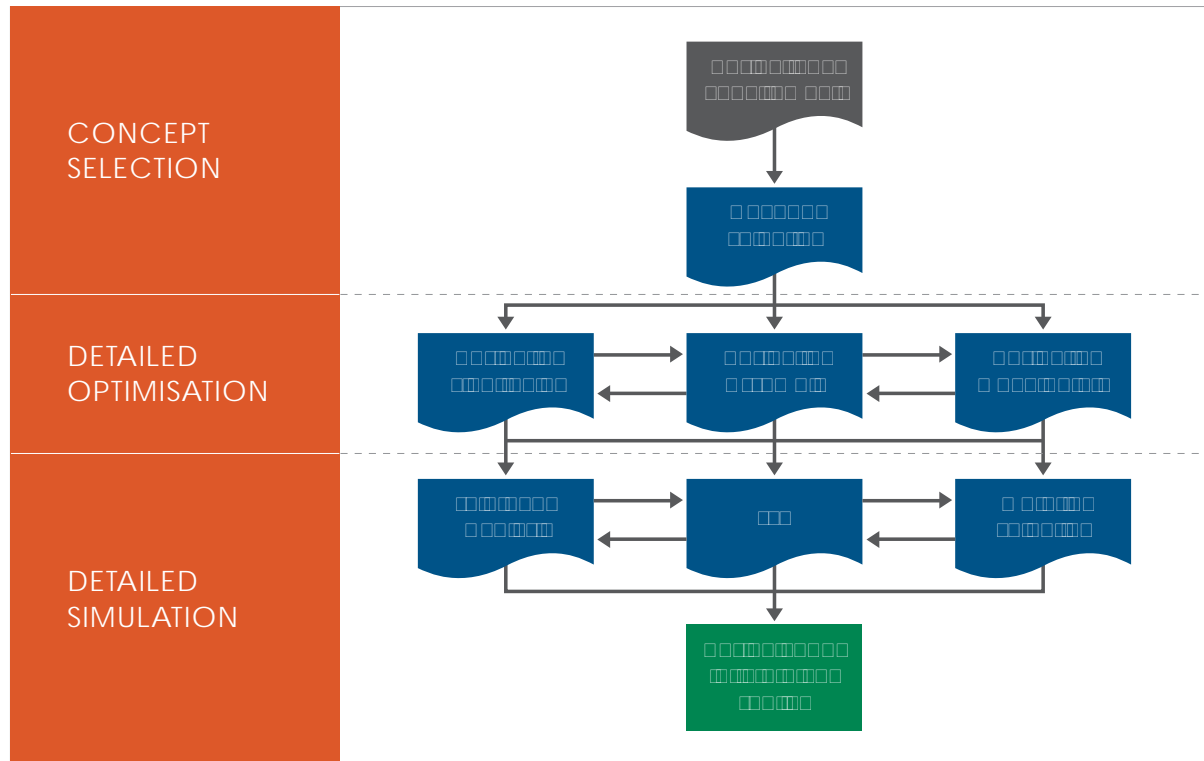
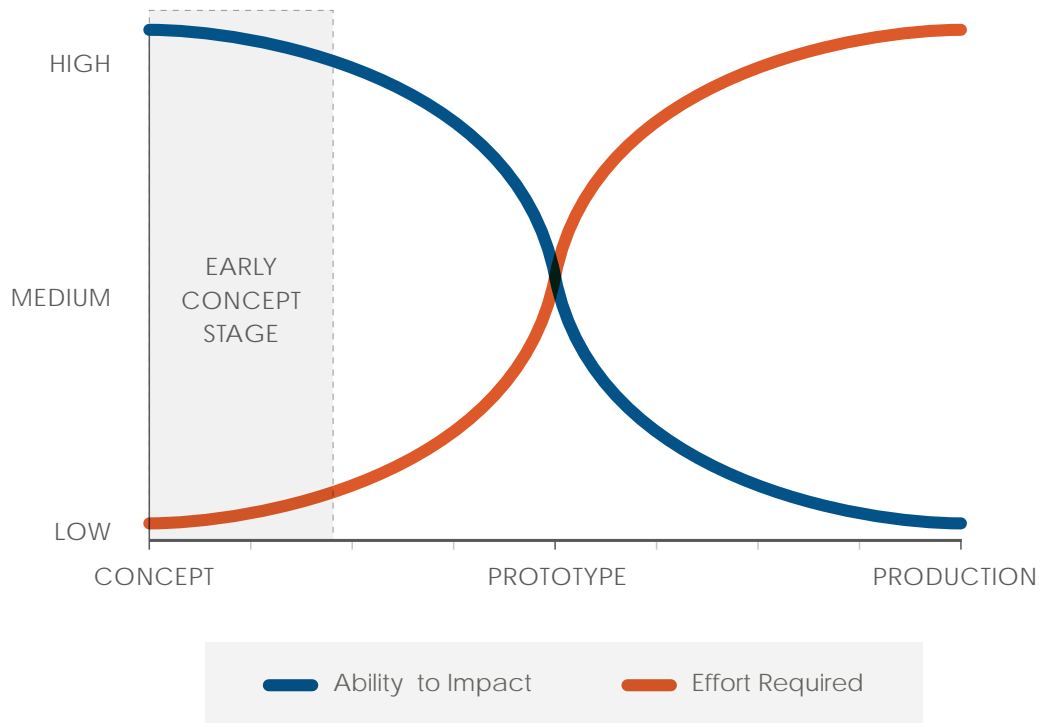


Figure 1: Early Design Stage Process Elements

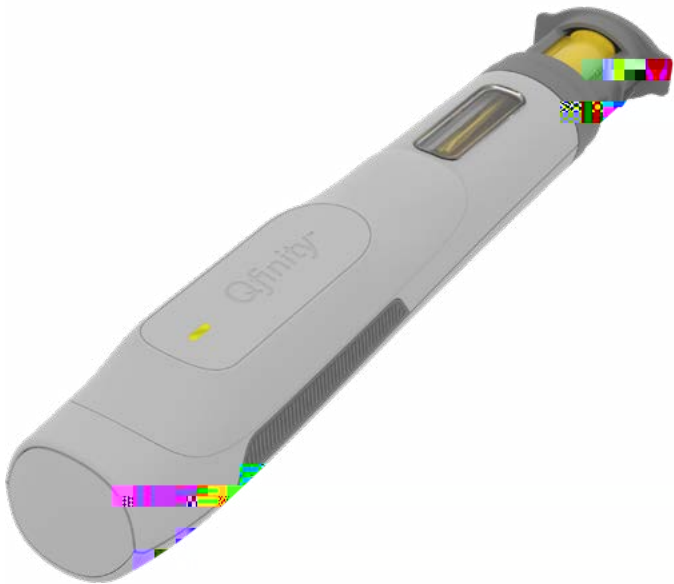
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5hWcbWdhgy`YWjcb`gU[ YzhY`cddcfi b]mhc`cdha`gy`U`XYj`W`XYgj[ b`zcfj`gU]bUV]]mi`  
]gUh]hjdYU\_""7 cbj YfgY`mz]Zmci`Xc`bchWcbg]XYfg`gU]bUV]]mUhk]g]gU[ YzhYb`mci`fWUbwW`

### DEVICE SUSTAINABILITY



5h>UV]`<YU`hWUfYžk Y`i gY`U`7 cbWdhGY`YWh]cb`A Uhf]` hUhUWwŁa a cXUH`gU`XUH!Xf]` Yb`  
UddfcUWŁ`hc`UggYgg]b[ `YUWŁ`XYj`]WY`U[`U]bgh]hgXYg[ b`fYe i`]fYa`Ybhg`5dd`m]b[ `U`k`Y][`hlc`  
YUWŁ`fYe i`]fYa`YbhUbX`gŁc`f]b[ `YUWŁ`Łc`bW`dhdfcj`]XYgU`c`]gh]WUddfcUWŁ`hc`UggYgg]b[ `  
hY`g`gU]bUV]]]micZU`Łc`bW`dh]b`hY`Łc`bhYI`hcZchYffYe i`]fYa`Ybhgg`WŁ`UgZ`bWŁ]cbU`]mž`  
a`Ubi`ZUWŁi`fUV]]]mž`i`gUV]]]miUbX`Łc`gI`





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C dh]a ]g]b[ `Wca dcbYbhia UHYf]U`gY`YWh]cb ]g]Ub`Yg]UV`]g]YX`a YUbg]Zcf`UWk`]Yj ]b[ `]g`g]U]bUV`Y`  
XYg]l[ bg]`ck Yj Yf]XYH]fa ]b]b[ `h]Y`a cgh]g`g]U]bUV`Y`a UHYf]U`hc`d]fc[ f]Ygg]Zcfk UfX`Uh]YUfmi  
XYg]l[ b`g]U[ Yg]WU]b`VY`Wk`U`Yb[ ]b[ ``5h>UV`<YU`h]WUf]Yzk Y`k`cf`k ]h`d]Uf]b]Yf]g]hc`XYj Y`cd`  
U`X]U]H]V]U]g]Y`h]Uh]Wca d]Uf]Yg]X]Z]Y]f]Ybhia UHYf]U`cd]h]cb]g]Ub]X`U`ck`gi`g]hc`g]Y`Wh]h]Y`a`c]gh`  
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- FYW]h]W]b[ `a`Y`h]c]X
- 9bj`]f]c]ba`Yb]H`]a`d]U]W]h]c]Z]h]Y`a`UHYf]U`d]fc]Xi`Wh]cb
- 7 Uf]V]c]b`:]c]c]h]d]f]b]h]c]Z]h]Y`g`d]d]m]W]k]U]b]Zcf]h]Y`a`UHYf]U`
- h]Y`a`UHYf]U`g`d]d]Y`f]h]g]g]U]bUV`]m]W]f]Y]X]Y]b]h]U`g`
- h]Y`d]f]Y]X]M]H]Y]X`d]c]g]h]i`g]Y`ci`h]Wca`Y`Zcf]h]Y`a`UHYf]U`  
f]Y`U`b]X]U`z]k`U]g]h]`hc`Y]b]Y]f]l`m]z]W]f]W`U]f]Y]W]c]b]ca`m]k`

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: cf g]b[ 'Y!i g' d'Ugh]WXYj ]Wgzi bXYfgUbx]b[ 'hY'Ybj ]fcb a YbhU''ja dUWhcZhY'fyg]b' dfcXi Wh]cb' ]gU'gc' ]a dcfUUbhlc 'Wcbg]XYf' l gY' cZfYWhWYX' a UHyf]U' 'Wcbh]bi Yg]tc' VY' WU''Yb[ ]b[ 'Xi Y'hc' hY' f]g\_g'cZWcbHJa ]bU]h]cb' UbX' a UHyf]U' 'hUWUV]]m' 7 ca dUb]Yg]g' W' Ug'6c'fYU' ]gU'fY' k'cf\_]b[ 'cb'cdYfU]h]cbg]b'UXj UbWwX'fYWhW]b[ 'hc'fYh' fb'd'Ugh]Wg'VUW'hc' hY]f' VUg]Wa cbca Yfz'k \]W' k'ci 'X'VY'g' ]fUV'Y'Zc'fa YX]WU''XYj ]W' a Ubi ZUWh' fY'Vi h'hY'fY' UfY' YWcbca ]Yg'cZgWU'Y'fYei ]fYX' h'Uha U\_Y' h'lg]WU''Yb[ ]b[ ' ]b' hY' g'lc'fh'f'fa " "

: cf fYg]bg]b' d'Ufh]W' U'f'hY' ZYXg'c'W\_ i g'Y'X' ]g'Wf]h]WU''C bY'k' UmicZhfUbg]h]cb]b[ 'Uk' Umiz'ca' ' Zc'gg] 'Z' Y''ZYXg'c'W\_g]g]hc' i g'Y'U' a Ugg]VU'UbW' Udd'fc'UW' "hY' a Ugg]VU'UbW' Udd'fc'UW' ]g' U' a Y'h'c'X'c'Z' ]b\_]b[ 'g' g]U]bUV'Y' ZYXg'c'W\_g]hc' 'YbX' d'fc'Xi Whg' " h'YbUV'Yg'U'g' ]ZiUk' Umiz'ca' ' Zc'gg] 'Z' Y''ZYXg'c'W\_g]hc' U' a cfY'g' g]U]bUV'Y' W]fW' U'fY'Wcbca m' h' ]g'g'gh'Ya' fYei ]fYg'fYg]b' a Ubi ZUWh' fYf]g]hc' [ fUXi U'mi g'Y' a cfY' UbX' a cfY' V]c' VUg'Y' c'f'W]fW' U'f'ZYXg'c'W\_g]b' d'fc'Xi Whg' " h' ]g'U'g]a ]U'f' d'fc'W'gg]hc' \ck' 'l [ fY'Yb'YbYf[ m' ]b]h]U]h] Ygk'cf\_'k' ]h'g'ca' Y'c'Z'hY'Y'Y'W]f]W]m]b' h'Y' [ f]X' Wca' ]b[ 'Z'ca' fY'Yk' UV'Y'gc' f'W'g'UbX'g'ca' Y'Z'ca' 'Zc'gg] 'Z' Y'g' : cfYI'Ua' d'Yz'7'Y'UbYg'Y' \Ug'XYj'Y'cdYX' <c'gh]Zc'fa' ® MT® DC A '97 C' l6z'U'g' g]U]bUV'Y' a YX]WU'' [ fUXY' a UHyf]U''k' \]W' ]g]U' a c'gh]XYbh]WU''hc' h'Y]fYI' ]gh]b[ 'DC A' d'fc'Xi Wh'Vi h]g]a' UXY' i d'c'ZU'fci' bX' '- + ]V]c'!Wcbh'Y'bh' fV]c' [ Ug' "h]g]a' UHyf]U'' \Ug'Y'gg]h'Ub' ) \$i' c'Z'hY' WU'fV'cb' Zc'cd'f]bh'Ug'h'Y'c'f] [ ]bU''DC A' d'fc'Xi W'X'Z'ca' 'Zc'gg] 'Z' Y'g'z'h'i'g] [ ]j ]b[ 'hY' a YX]WU''XYj ]W' 'XYg] [ b'Y'f'h'Y'c'd'h]c'b'hc' g'Y'Y'Wh' a'cfY'g' g]U]bUV'Y' a UHyf]U'g'h'Uha' Y'Y'h'h'Y'g]Ua' Y'd'Y'f'Z'ca' UbW' W]f]h'f]U' "

## Conclusion

DfcXi W]b[ 'U'g' g]U]bUV'Y' a YX]WU''XYj ]W' ]g'b'ch'k' ]h'ci' h]g]WU''Yb[ 'Yg' '6mi'UW\_]b[ 'h' ]g'd'fc'V'Ya' U'h'h'Y'U'f'm'XYg] [ b'g]U' [ Y'z'h'Y'fY' ]g]a' U] ]a' i' a' 'U'YI' ]V]]m]h'c'c'd'h]a' ]g'Y'U'XYj ]W' ]g'g' g]U]bUV]]m]k' ]h' a' ]b]a' U''ja' d'UWh'c'b'd'fc'Y'Wh]h]a' Y' ]b'Y'g'UbX' 'W'c'g]' h'c'f'X'Y'f'hc' 'X'c' h' ]g'Y'Z'Y'Wh]j' Y'm'z'k' Y'fY'W'ca' a' YbX' ]b'h'Y' [ fU]h]b[ 'g' g]U]bUV]]m]b]hc' U''Ug'd'Y'W]g'c'Z'hY'Y'U'f'm]g]U' [ Y'XYg] [ b'd'fc'W'gg]hc' 'XY' ]j' Y'fU'V'Y'g]h'

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