

Risk ID	Risk Category
E-1	Ecosystem
E-2	Ecosystem
E-3	Ecosystem
E-4	Ecosystem
R-1	Research and Development
R-2	Research and Development
T-1	Translation
T-2	Translation
T-3	Translation

W-1 Workforce

W-2 Workforce

W-3 Workforce

Risk Description ("if then")

If de minimus isn't addressed, then we could see further industry collapse

If key partners experience major operational disruption (e.g. loss of funding, loss of key personnel), it could weaken the leadership and productivity of the Engine

If funding for the Engines program doesn't continue, some projects will not be brought to fruition

If regulatory and environmental policy is poorly informed or not enacted, it will hinder the ability of the Engine to launch products into commercialization and could negatively impact the industry overall

If inflation continues, equipment and material prices could deplete Engine resources

If research and development does not move quickly enough, US sustainable products will not be competitive in the market and other countries will consume the majority of market share

If sustainable fibers cannot be produced within current costing structures, brands will not adopt them

If capital isn't available to support new business ventures and manufacturing technologies, Engines innovations will not make it to the marketplace

If navigating the complexity of intellectual property ownership becomes untenable, then we can't maximize shared knowledge and incentivize businesses to be members

If industry continues to shrink, fewer jobs will be available

If products aren't commercialized, the manufacturing sector will not grow and new jobs won't be created

If K-12 education systems don't see the importance and/or future of textiles, they won't support early childhood and vocational education that will build a workforce pipeline for these industries

Trigger	Watch Date	Risk Ranking
US DOL BLS data indicates continued job losses in relevant NAICS sectors	Quarterly	High
Indications in budget negotiations that forecast funding cuts to State budgets, community college budgets and UNC system budgets programming; changes to legislative body	Biweekly	Low
Indications in budget negotiations that forecast funding cuts to NSF or Engines programming; changes to legislative body	Quarterly	Medium
Sponsorship of EPR or other legislations that are restrictive to the process of developing sustainable fibers	Quarterly	High
Pricing exceeds budgeted amount by more than 5%	Per purchase exce	Low
TRL levels do not advance per project deadlines, Brands discontinue interest in projects to pursue other technologies	Quarterly	Medium
Brands are not convinced to participate in early pilots or commit to purchase orders	Per pilot project	High
Decrease in capital investments across Engines activities	Quarterly	Medium
Non participation in the Engine by emerging R&D Leaders	Quarterly	Low

US DOL BLS data indicates continued job losses in relevant NAICS sectors	Quarterly	Medium
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Early pilots are not successful; brands are not convinced to participate in early pilots	Quarterly	High
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NC DPI discontinues curriculum discussions and development	May-June 2024	Medium
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List and Define the Meta Data Fields used in the risk register. This includes the options where responses may vary
NAICS Codes

