**Table G1.** Delphi study results per each group of practitioners and per each round in terms of median, IQR, and stability per each countermeasure. Source: Created by author.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Challenge** | **Countermeasure** | **Early-Stage Adopters** | | | | | **Advanced-Stage Adopters** | | | | |
| **Round 2** | | **Round 3** | | | **Round 2** | | **Round 3** | | |
| **Median** | **IQR** | **Median** | **IQR** | **ρ** | **Median** | **IQR** | **Median** | **IQR** | **ρ** |
| Lack of Supplier | Supplier support scheme | 5 | 2 | 4 | 1 | 0.68 | 3 | 2 | 3 | 1 | 0.83 |
| Qualified Supplier Program | N/A | N/A | N/A | N/A | N/A | 4 | 1 |  |  |  |
| High Investment Costs | AM machine acquisition support | 5 | 1 |  |  |  | 3 | 2 | 3 | 1 | 0.79 |
| AM machine innovation fund | 3 | 2 | 3 | 1 | 0.91 | 2 | 1 |  |  |  |
| Cost-effective AM machine development | 4 | 1 |  |  |  | 3 | 2 | 2 | 2 | 0.87 |
| Military asset sharing program | N/A | N/A | N/A | N/A | N/A | 5 | 2 | 5 | 1 | 0.77 |
| AM machine leasing program | N/A | N/A | N/A | N/A | N/A | 3 | 2 | 4 | 1 | 0.42 |
| High Operational Costs | Cost-Effective materials & machines | 4 | 2 | 4 | 1 | 0.85 | 3 | 1 |  |  |  |
| Design and process optimization | N/A | N/A | N/A | N/A | N/A | 4 | 2 | 4 | 1 | 0.88 |
| IP Issues & Data Breaches | IT security | 3 | 2 | 3 | 1 | 0.77 | N/A | N/A | N/A | N/A | N/A |
| IP licensing agreements | 4 | 1 |  |  |  | 4 | 1 |  |  |  |
| Workforce resistance | Battlefield AM benefits | 4 | 2 | 4 | 1 | 0.72 | 3 | 2 | 3 | 1 | 0.71 |
| Upskilling and training | 4 | 1 |  |  |  | 2 | 2 | 2 | 1 | 0.66 |
| AM academic awareness | 3 | 1 |  |  |  | 2 | 2 | 2 | 2 | 0.91 |
| AM benefits campaigns | 2 | 2 | 2 | 1 | 0.65 | N/A | N/A | N/A | N/A | N/A |
| Standardization and Certification | AM guidelines and standards | 5 | 2 | 5 | 1 | 0.93 | 4 | 2 | 5 | 1 | 0.43 |
| Internal guidelines | N/A | N/A | N/A | N/A | N/A | 4 | 2 | 4 | 1 | 0.65 |
| Material Limitation | Raw materials development fund | 4 | 2 | 4 | 1 | 0.93 | 3 | 2 | 3 | 1 | 0.76 |
| Raw materials innovation R&D | 5 | 1 |  |  |  | 3 | 2 | 3 | 2 | 0.79 |
| Material selection-driven design changes | N/A | N/A | N/A | N/A | N/A | 4 | 2 | 5 | 1 | 0.32 |
| Lack of skilled personnel | External education and training programs | 4 | 2 | 4 | 2 | 0.92 | N/A | N/A | N/A | N/A | N/A |
| AM curricula | 4 | 2 | 4 | 1 | 0.69 | 4 | 2 | 3 | 1 | 0.33 |
| Internal education and training programs | N/A | N/A | N/A | N/A | N/A | 4 | 1 |  |  |  |
| Lack of managerial support | Battlefield AM benefits | 4 | 1 |  |  |  | 2 | 2 | 2 | 1 | 0.85 |
| Academic AM awareness | 2 | 2 | 2 | 1 | 0.71 | N/A | N/A | N/A | N/A | N/A |
| Production Limitation | AM machine improvement fund | 4 | 2 | 4 | 1 | 0.80 | 3 | 2 | 3 | 2 | 0.82 |
| High-performance AM machine development | 5 | 2 | 5 | 2 | 0.78 | 3 | 2 | 4 | 1 | 0.36 |
| Smart design | N/A | N/A | N/A | N/A | N/A | 4 | 2 | 5 | 1 | 0.64 |
| Need for post-process operations | High-quality AM machine development | 4 | 1 |  |  |  | 3 | 2 | 3 | 1 | 0.71 |
| Smart design and process selection | N/A | N/A | N/A | N/A | N/A | 4 | 1 |  |  |  |
| Low Quality | High-quality AM machine and material development | 5 | 2 | 5 | 2 | 0.83 | 3 | 2 | 3 | 1 | 0.87 |
| Quality-based process parameters tuning | N/A | N/A | N/A | N/A | N/A | 5 | 2 | 4 | 1 | 0.59 |
| Lack of governmental support | Lobby | 4 | 1 |  |  |  | 4 | 2 | 4 | 1 | 0.96 |
| Difficult ecosystem establishment | Collaborative platforms | 4 | 2 | 4 | 2 | 0.87 | 3 | 2 | 3 | 1 | 0.61 |
| Ecosystem models | N/A | N/A | N/A | N/A | N/A | 5 | 2 | 5 | 2 | 0.79 |
| Lack of process repeatability | High-repeatibility AM machine development | 5 | 2 | 4 | 1 | 0.29 | 3 | 2 | 3 | 2 | 0.77 |
| Repeatibility-based process parameters tuning | N/A | N/A | N/A | N/A | N/A | 4 | 2 | 4 | 1 | 0.67 |
| AM standards for repeatibility | N/A | N/A | N/A | N/A | N/A | 4 | 1 |  |  |  |