Table 3.2 Drivers of DevOps adoption from Literature

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| --- | --- | --- | --- |
| **CODE** | **DRIVERS** | **FREQ** | **RANK** |
| **DO1** | **AGILITY AND SPEED IN RELEASE PROCESSES** | **36** | **#1** |
| D01a | Reduction in release cycle times (Time-to-Market) |  |  |
| D01b | To become more Agile and rapidly respond to customer/market |  |  |
| D01c | To facilitate continuous feedback loop from Ops to Dev |  |  |
| D01d | To ensure that releases does not stop production |  |  |
| D01e | To facilitate faster-time-to-market |  |  |
| **DO2** | **POLICIES AND ORGANISATIONAL STRUCTURE** | **34** | **#2** |
| D02a | To eliminate cultural silos by enforcing collaboration and interaction |  |  |
| D02b | To enforce effective communication and team spirit |  |  |
| D02c | To promote trust and transparency |  |  |
| D02e | To ensure Dev and Ops have a sync mindset. |  |  |
| D02d | The need for standardization and compliance |  |  |
| D02d | To eliminate organization silos |  |  |
| **DO3** | **AUTOMATION** | **32** | **#3** |
| D03a | To eliminate error prone task |  |  |
| D03b | To implement paradigm based on CI/CD |  |  |
| D03c | To automate repetitive and complex processes |  |  |
| D03d | The need for version control to facilitate continuous build to delivery |  |  |
| D03e | To reduce the time put into configuring environments |  |  |
| D03b | To enforce version control |  |  |
| **DO4** | **TO HANDLE TECHNOLOGY DISRUPTION & SYSTEM DOWNTIME** | **12** | **#9** |
| D04a | To resolve conflicts generated from environmental sharing by different teams |  |  |
| D04b | To eradicate the bottleneck caused because Ops are not designed to support Dev |  |  |
| D04c | Risk mitigation - better identification of risks in the context of each sprint |  |  |
| D04d | Data-Driven Decision-Making |  |  |
| **DO5** | **DEMAND FOR HIGH QUALITY** | **27** | **#4** |
| D05a | Seeking for improved quality of products |  |  |
| D05b | Data-Driven Decision-Making |  |  |
| D05c: | Increased SLAs - Service Level Agreement in respect of availability, reliability and redundancy. |  |  |
| **DO6** | **DEPLOYMENT OF CLOUD BASED APPLICATIONS** | **24** | **#5** |
| D06a | To enable microservices - since decoupled approach simplifies the development and testing process while allowing services to be modified independently. |  |  |
| D06b | To help client businesses migrate to IAAS, PAAS & SAAS |  |  |
| D06c | Enable Quicker Deployment |  |  |
| **DO7** | **CONTINUOUS IMPROVEMENT** | 22 | **#6** |
| D07a | Improved Security |  |  |
| D07b | Customer Centricity |  |  |
| D07c | Incorporating Monitoring & Measurement |  |  |
| D07d | To address performance bottlenecks before consumer's awareness |  |  |
| **DO8** | **SOCIO-TECHNICAL ISSUES** | **5** | **#11** |
| D08a | Acquisition of new skill set adequate for CI/CD processes |  |  |
| D08b | To resolve issues with geographic dispersion of teams |  |  |
| **DO9** | **FLEXIBILITY AND DIGITAL TRANSFORMATION** | **8** | **#10** |
| D09a | To initiate transformation due to technological obsolescence |  |  |
| D09b | For rapid implementation of large organizational changes |  |  |
| D09c | To enforce Agile and Lean drivers |  |  |
| D09c | Rapid implementation of large software changes (modernization of legacy apps) |  |  |
| D09d | To remove barrier to innovation and continuous experimentation |  |  |
| D09e | To ensure teams have autonomy and flexibility to make decisions |  |  |
| **DO10** | **EFFICIENT VALUE DELIVERY TO STAKEHOLDERS** | 15 | #8 |
| D010a | Cost Reduction: combining people, tools and processes makes people more multi-skilled and reduces human resource costs |  |  |
| D010b | Increased turnover: rapid release increases productivity to meet market demands |  |  |
| D010c | Leanness – waste reduction and overheads |  |  |
| **DO11** | **EXTERNAL PRESSURE** | 3 | #12 |
| D011a | Competitive advantage |  |  |
| D011b | Business/Market demands from clients, trends, hypes and seminars |  |  |
| D011c | Attractiveness to customers and employees |  |  |
| **DO12** | **PROCESS ALIGNMENT AND OPERATIONAL EFFICIENCY** | **18** | **#7** |
| D012a | To enforce process alignment for (CI/CD) |  |  |
| D012b | To align organization strategic objective with business goals |  |  |
| D012c | To enforce shared end-to-end responsibility |  |  |