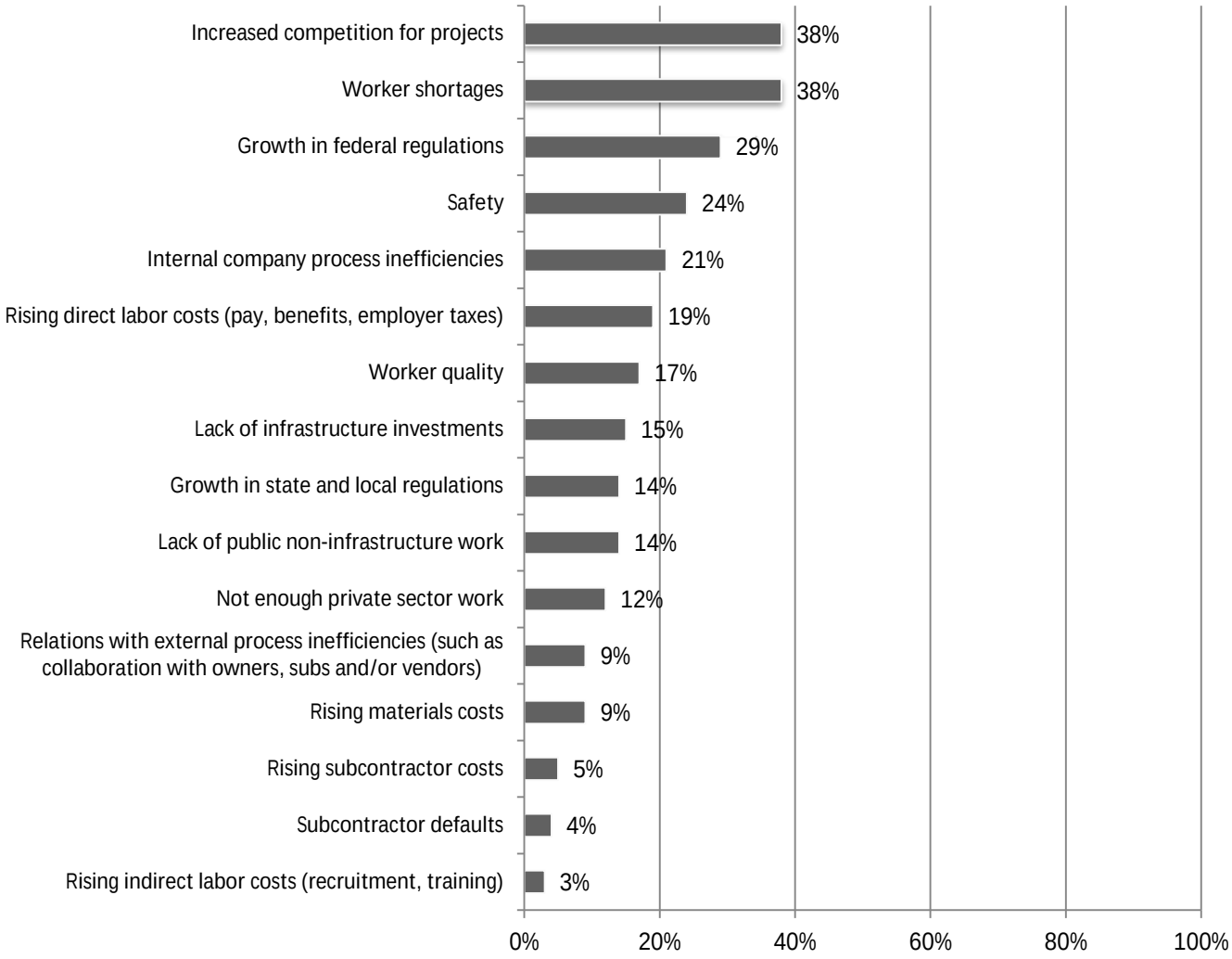
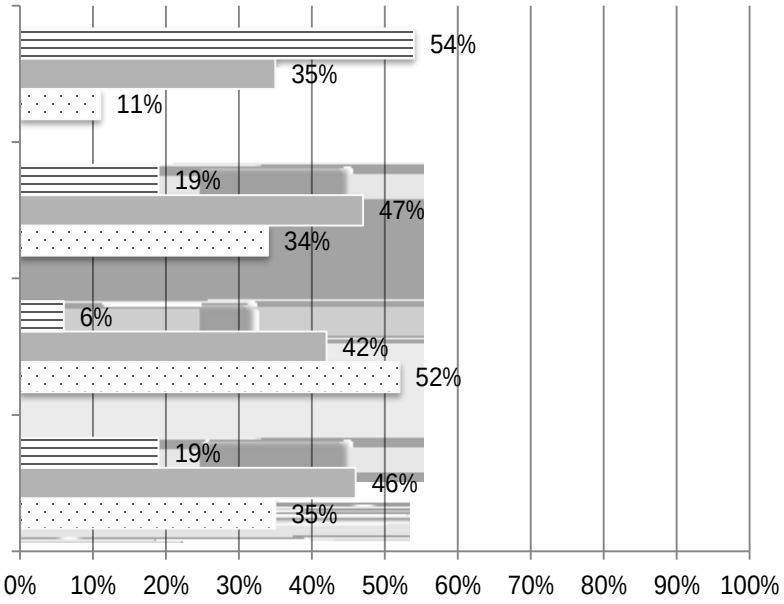
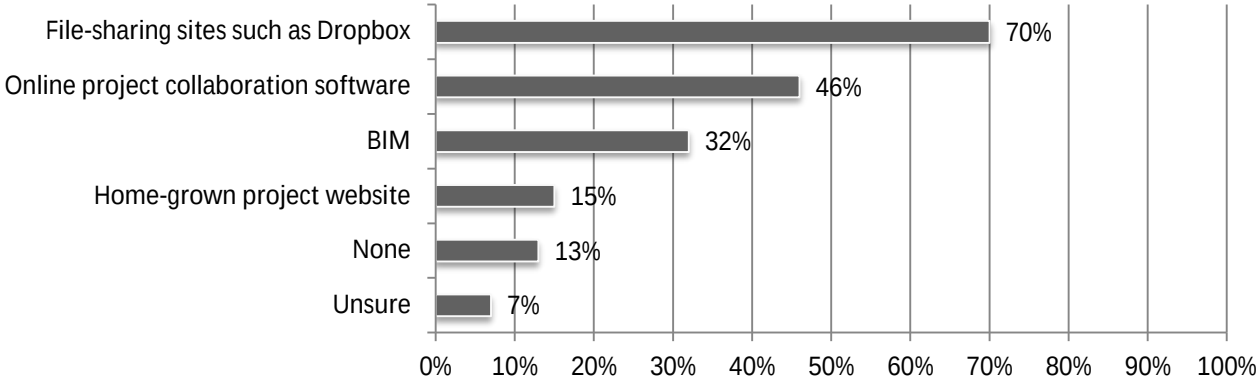
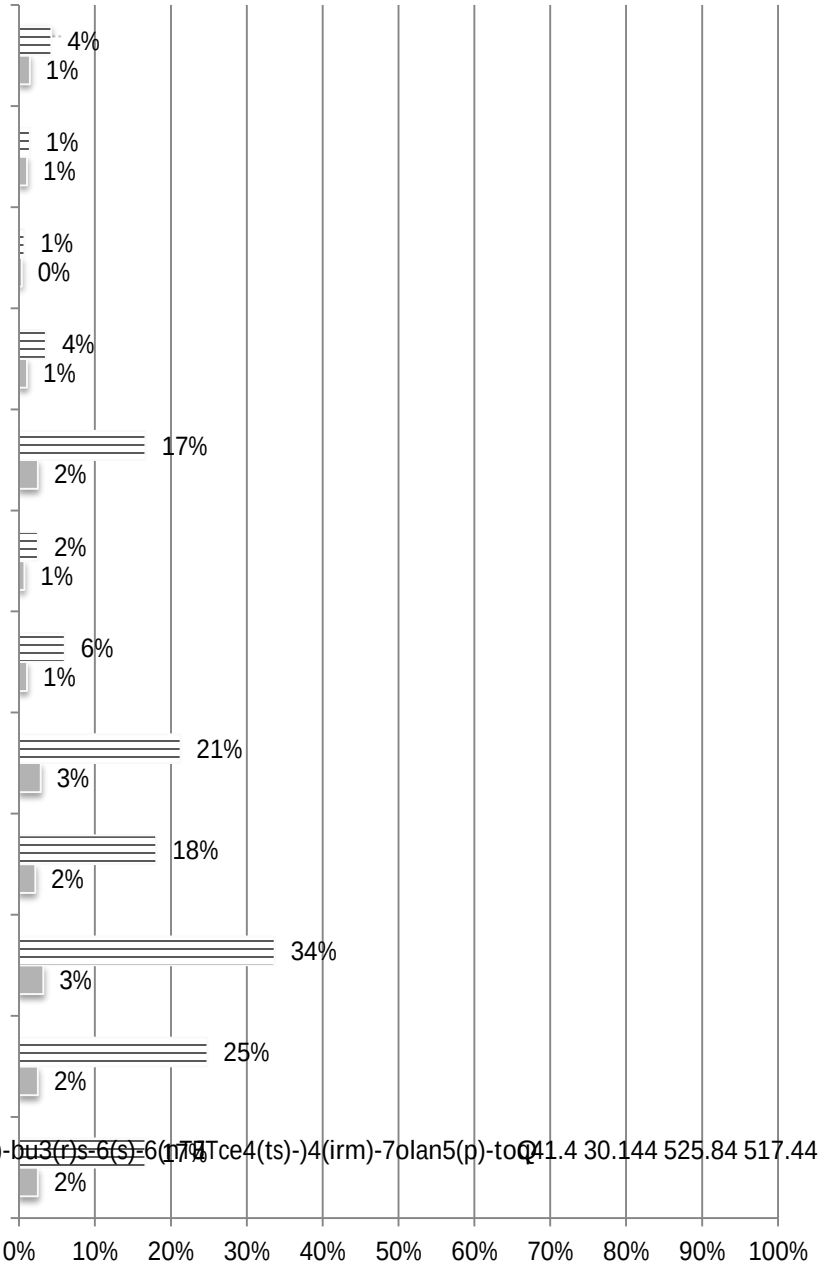
| | | | | |
|---|---|---|---|---|
| All projects | 57% | 8% | 35% | 49% |
| Federal (e.g., VA, GSA, USACE, NAVFAC) | 20% | 15% | 64% | 5% |
| Higher Education | 32% | 14% | 54% | 18% |
| Highway | 28% | 14% | 58% | 14% |
| Hospital | 34% | 14% | 52% | 20% |
| K-12 School | 38% | 14% | 48% | 24% |
| Manufacturing | 35% | 11% | 54% | 25% |
| Multifamily Residential | 34% | | | |

**Net equals difference between number of "Higher" and "Lower" responses as percent of total.*

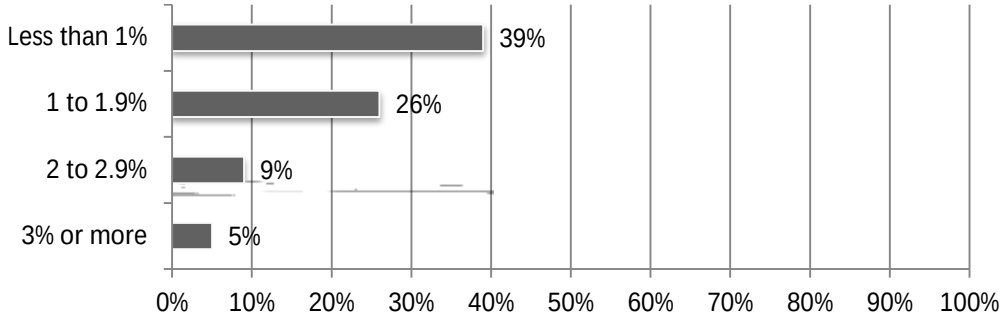

Increased competition for projects
38%
Worker shortages
38%
Growth in federal regulations
29%
Safety
24%
Internal company process inefficiencies
21%
Rising direct labor costs (pay, benefits, employer taxes)
19%
Worker quality
17%
Lack of infrastructure investments
15%
Growth in state and local regulations
14%
Lack of public non-infrastructure work
14%
Not enough private sector work
12%
Relations with external process inefficiencies (such as collaboration with owners, subs and/or vendors)
9%
Rising materials costs
9%
Rising subcontractor costs
5%
Subcontractor defaults
4%
Rising indirect labor costs (recruitment, training)
3%
0%
20%
40%
60%
80%
100%

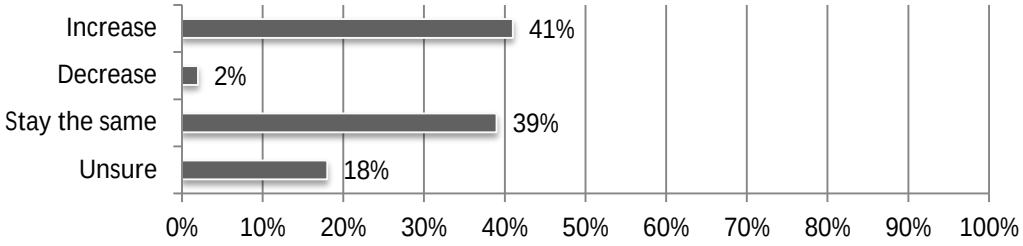

54%
35%
11%
19%
47%
34%
6%
42%
52%
19%
46%
35%
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%



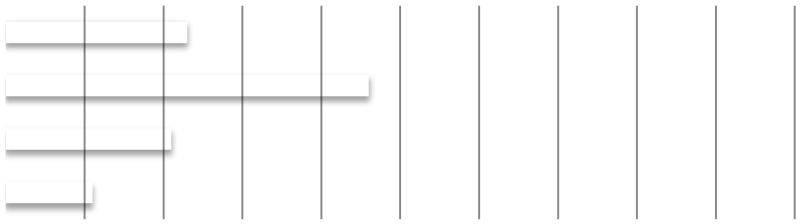



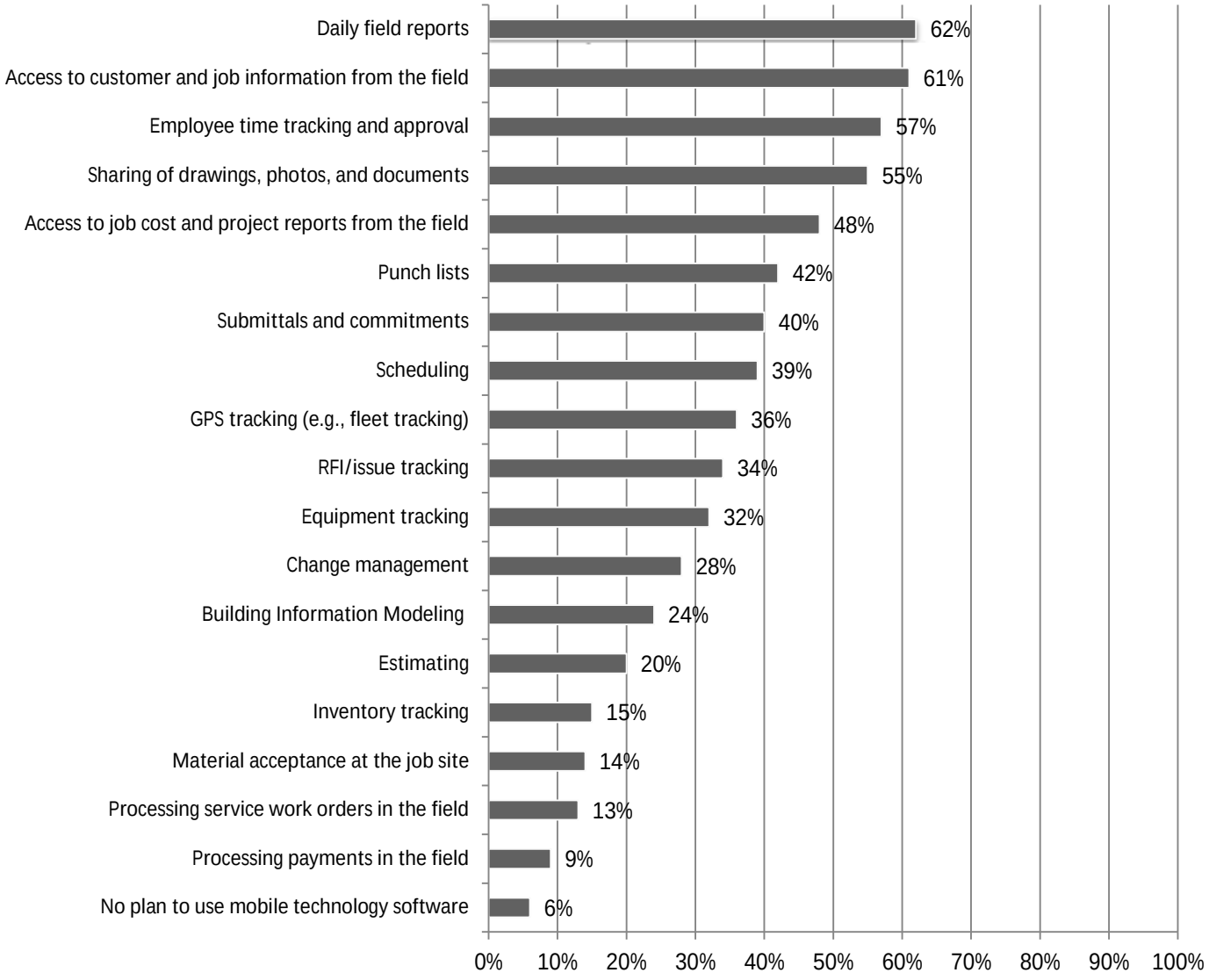

Our firm doesn't cu44 rel-5(r )-2(f)4283.08o15(v)-bu3(r)s-6(s)-6(1 7 Tce4(ts)-)4(irm)-7olan5(p)-tool41.4 30.144 525.84 517.44 r

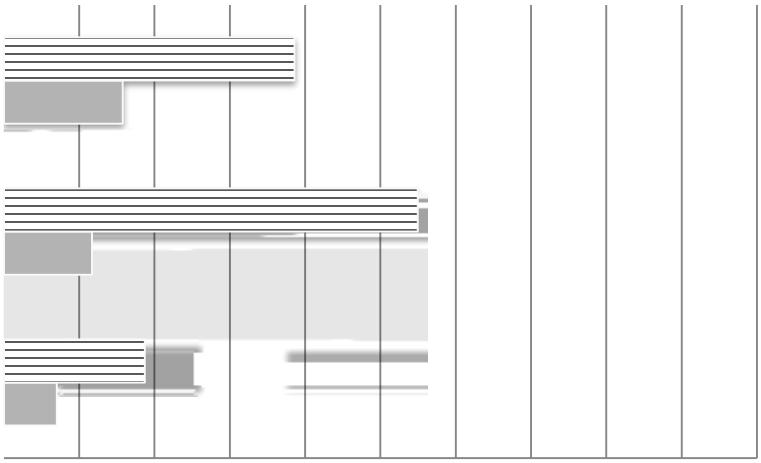


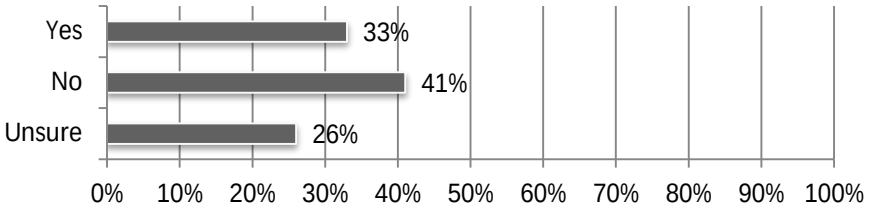



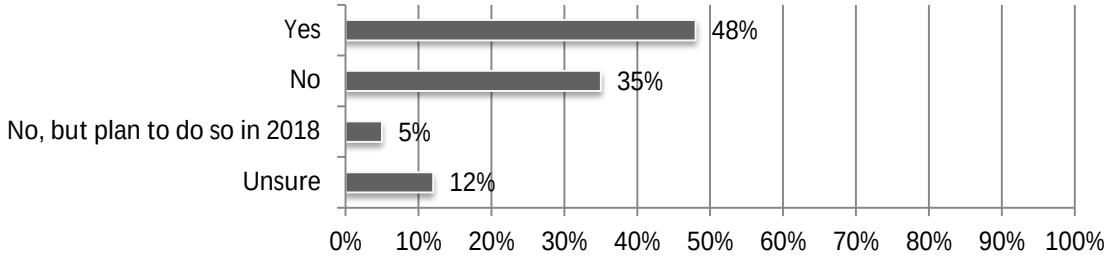

| | | | | |
|---|---|---|---|---|
| Accounting software | 20% | 72% | 1% | 7% |
| Building Information Modeling | 20% | 53% | 0% | 27% |
| Client relationship management software | 18% | 58% | 0% | 24% |
| Document management software | 31% | 57% | 0% | 11% |
| Estimating software | 25% | 65% | 0% | 11% |
| Fleet tracking/management software | 22% | 58% | 0% | 21% |
| Human resources software | 18% | 66% | 0% | 16% |
| Payroll software | 10% | 79% | 0% | 10% |
| Prequalification software | 6% | 71% | 0% | 23% |
| Project collaboration software | 20% | 61% | 0% | 19% |
| Project management software | 28% | 57% | 0% | 13% |
| Scheduling software | 15% | 73% | 0% | 12% |
| Service management software | 7% | 69% | 0% | 4% |
| Subcontractor bid management/ITB software | 9% | 72% | 0% | 18% |

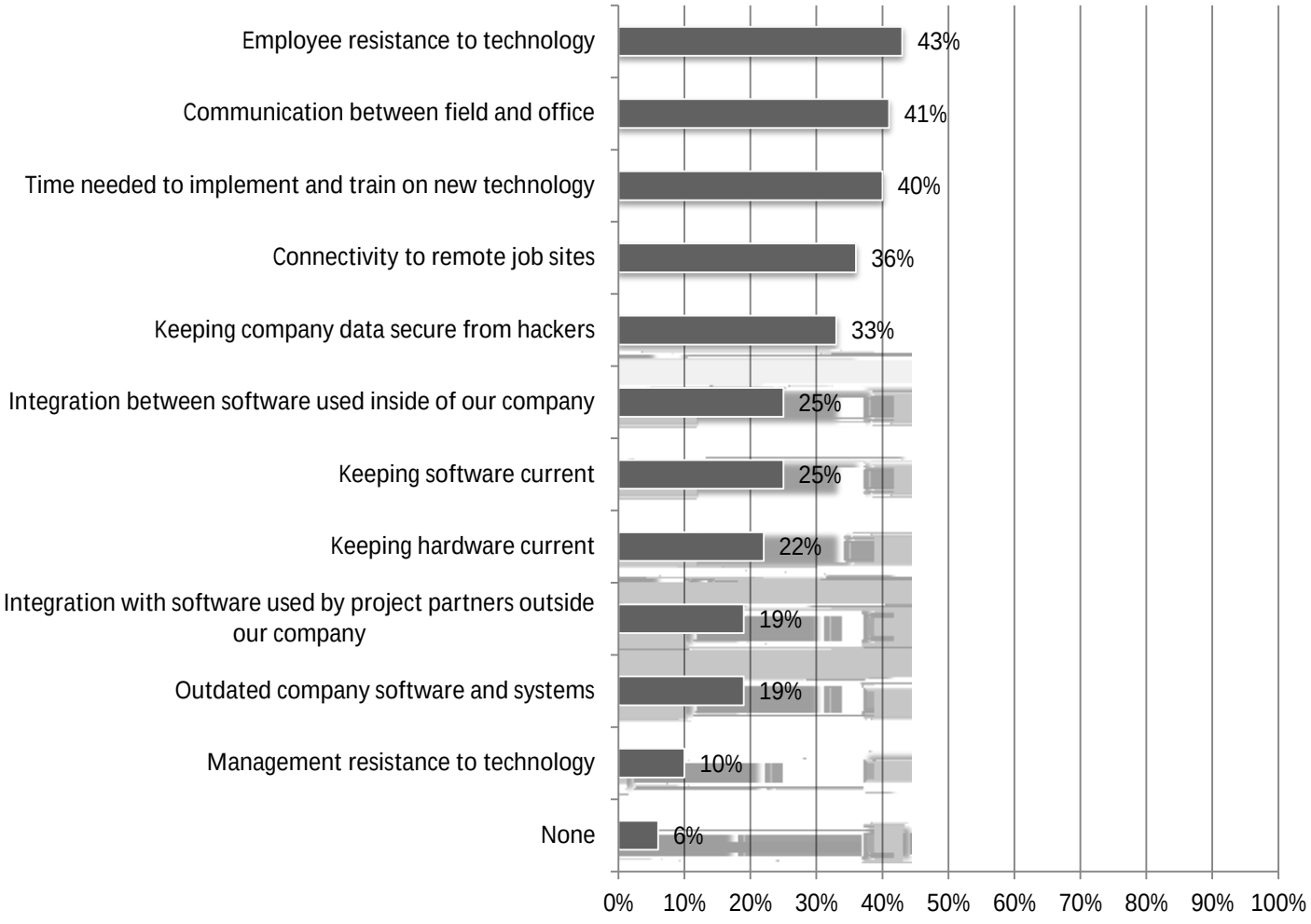



Daily field reports
62%
Access to customer and job information from the field
61%
Employee time tracking and approval
57%
Sharing of drawings, photos, and documents
55%
Access to job cost and project reports from the field
48%
Punch lists
42%
Submittals and commitments
40%
Scheduling
39%
GPS tracking (e.g., fleet tracking)
36%
RFI/issue tracking
34%
Equipment tracking
32%
Change management
28%
Building Information Modeling
24%
Estimating
20%
Inventory tracking
15%
Material acceptance at the job site
14%
Processing service work orders in the field
13%
Processing payments in the field
9%
No plan to use mobile technology software
6%
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%




Yes
No
Unsure
33%
41%
26%
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%


Yes
No
No, but plan to do so in 2018
Unsure
48%
35%
5%
12%
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%


Employee resistance to technology
Communication between field and office
Time needed to implement and train on new technology
Connectivity to remote job sites
Keeping company data secure from hackers
Integration between software used inside of our company
Keeping software current
Keeping hardware current
Integration with software used by project partners outside our company
Outdated company software and systems
Management resistance to technology
None
43%
41%
40%
36%
33%
25%
25%
22%
19%
19%
10%
6%
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%