



Prevention of Construction Accident: The Role and Responsibility of DOSH

Mohd Fairuz AB RAHMAN

BEng (Mech. Eng.), MSc (Construction Project Mgmt.), PhD (Mech.
Eng.), PEng, MIEM

Seksyen Kejuruteraan

**Bahagian Keselamatan Tapak Bina,
Jabatan Keselamatan & Kesihatan Pekerjaan**



At a glance

Much of the good efforts are undertaken by the industry to improve OSH performance

Many areas for further improvement



Prevention of accident

{Prevention}

{Accident}

“We can’t really prevent the accident if we can’t identify the risk”

We look at the 3 main functions





From the outset, in 2013

The construction industry remains
one of the largest in Malaysia, creating
employment to around 1 million
people

Represents 6.2% of total employment

Contributes RM 29.3 billion to GDP

Source: Economic Planning Unit, PMD



Build-in characteristics

It also remains hazardous and a cause for significant concern.

The characteristics of the industry and the challenges they create for safety and health are well documented.

Construction industry outlook

Transport infrastructure projects (RM mil)



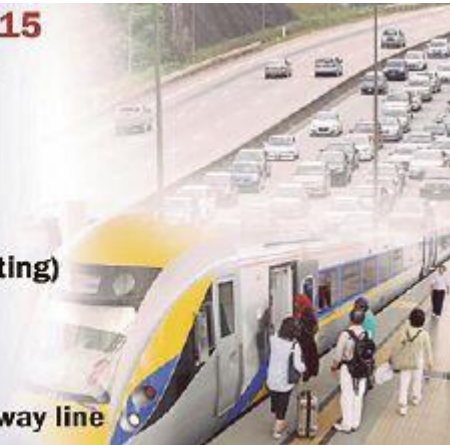
Dash: Damansara-Shah Alam elevated highway
 Suke: Sungai Besi-Ulu Kelang elevated highway
 Kidex: Kinrara-Damansara Expressway
 WCE: West Coast Expressway
 HSR: KL-Singapore high-speed rail

*Values for Dash, Suke, Kidex and MRT 2 & 3 are based on CIMB's estimates

Source: CIMB, company reports

SOME PROJECTS PLANNED FOR 2015

- ☐ Line 2 of Klang Valley My Rapid Transit
- ☐ Pan-Borneo Highway
- ☐ Third light rail transit line
- ☐ Sungai Besi-Ulu Klang Expressway
- ☐ West Coast Expressway (Taiping to Banting)
- ☐ Damansara-Shah Alam Highway
- ☐ Eastern Klang Valley Expressway
- ☐ Upgrading of KTM Bhd's east-coast railway line



30 NATION

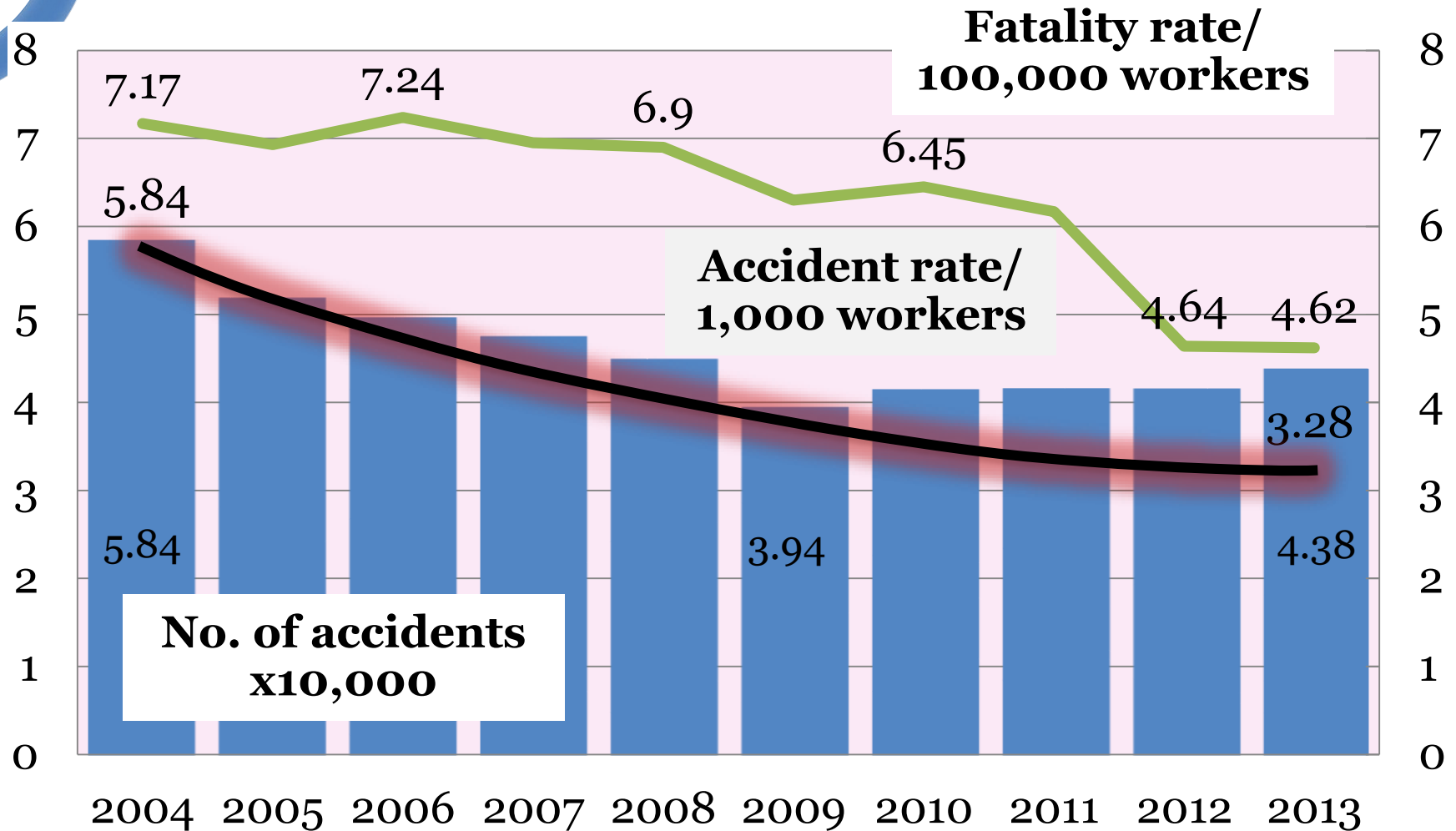
GST

Exporters of 1,000+ items will get a 1% credit on GST paid on inputs. The credit will be used to offset GST on exports. The credit will be available from 1st Jan 2015.

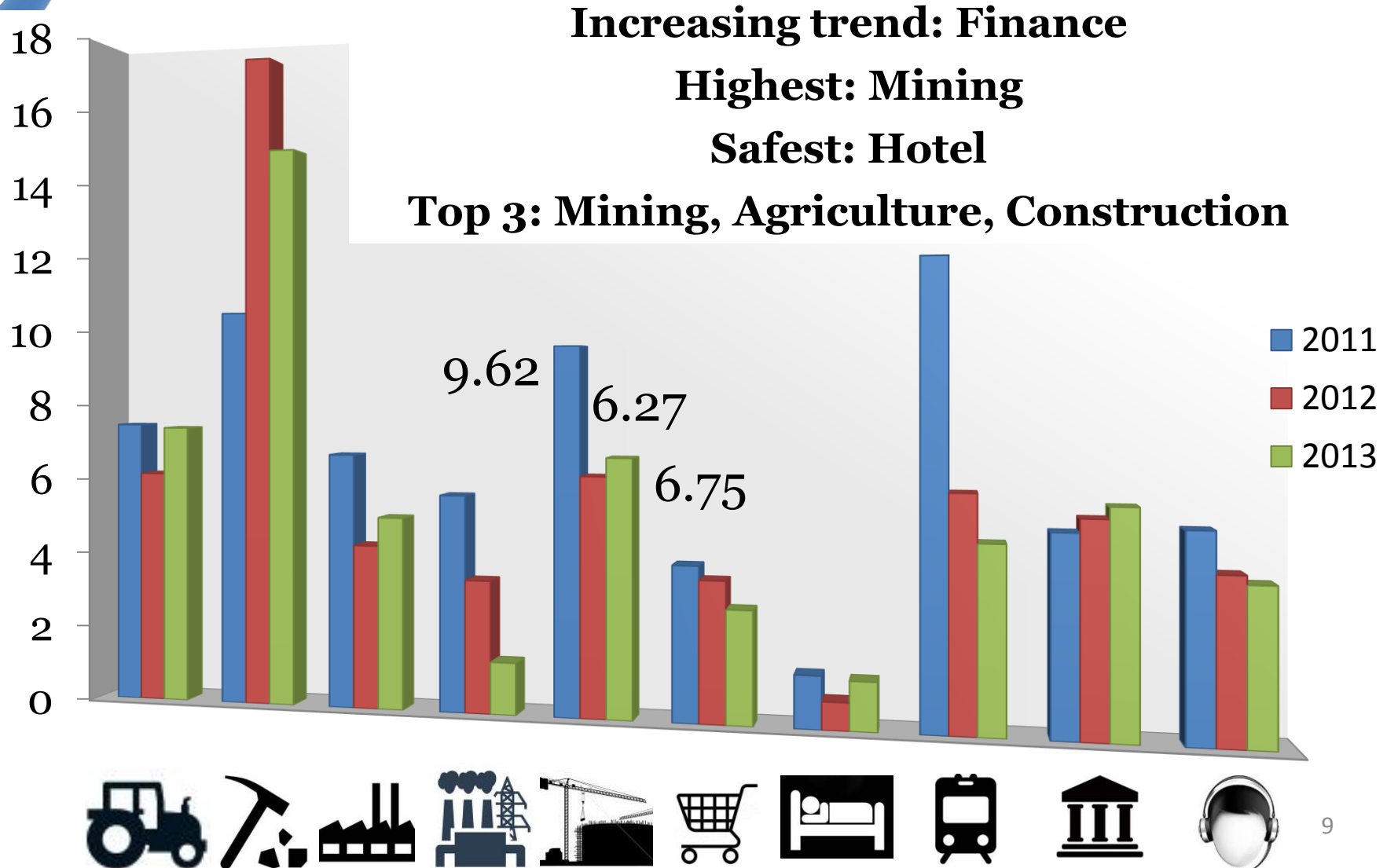
COST OF LIVING

Cost of living index (CLI) for 2014 is 100.00. The CLI for 2013 is 99.50. The CLI for 2012 is 99.00. The CLI for 2011 is 98.50. The CLI for 2010 is 98.00. The CLI for 2009 is 97.50. The CLI for 2008 is 97.00. The CLI for 2007 is 96.50. The CLI for 2006 is 96.00. The CLI for 2005 is 95.50. The CLI for 2004 is 95.00. The CLI for 2003 is 94.50. The CLI for 2002 is 94.00. The CLI for 2001 is 93.50. The CLI for 2000 is 93.00. The CLI for 1999 is 92.50. The CLI for 1998 is 92.00. The CLI for 1997 is 91.50. The CLI for 1996 is 91.00. The CLI for 1995 is 90.50. The CLI for 1994 is 90.00. The CLI for 1993 is 89.50. The CLI for 1992 is 89.00. The CLI for 1991 is 88.50. The CLI for 1990 is 88.00. The CLI for 1989 is 87.50. The CLI for 1988 is 87.00. The CLI for 1987 is 86.50. The CLI for 1986 is 86.00. The CLI for 1985 is 85.50. The CLI for 1984 is 85.00. The CLI for 1983 is 84.50. The CLI for 1982 is 84.00. The CLI for 1981 is 83.50. The CLI for 1980 is 83.00. The CLI for 1979 is 82.50. The CLI for 1978 is 82.00. The CLI for 1977 is 81.50. The CLI for 1976 is 81.00. The CLI for 1975 is 80.50. The CLI for 1974 is 80.00. The CLI for 1973 is 79.50. The CLI for 1972 is 79.00. The CLI for 1971 is 78.50. The CLI for 1970 is 78.00. The CLI for 1969 is 77.50. The CLI for 1968 is 77.00. The CLI for 1967 is 76.50. The CLI for 1966 is 76.00. The CLI for 1965 is 75.50. The CLI for 1964 is 75.00. The CLI for 1963 is 74.50. The CLI for 1962 is 74.00. The CLI for 1961 is 73.50. The CLI for 1960 is 73.00. The CLI for 1959 is 72.50. The CLI for 1958 is 72.00. The CLI for 1957 is 71.50. The CLI for 1956 is 71.00. The CLI for 1955 is 70.50. The CLI for 1954 is 70.00. The CLI for 1953 is 69.50. The CLI for 1952 is 69.00. The CLI for 1951 is 68.50. The CLI for 1950 is 68.00. The CLI for 1949 is 67.50. The CLI for 1948 is 67.00. The CLI for 1947 is 66.50. The CLI for 1946 is 66.00. The CLI for 1945 is 65.50. The CLI for 1944 is 65.00. The CLI for 1943 is 64.50. The CLI for 1942 is 64.00. The CLI for 1941 is 63.50. The CLI for 1940 is 63.00. The CLI for 1939 is 62.50. The CLI for 1938 is 62.00. The CLI for 1937 is 61.50. The CLI for 1936 is 61.00. The CLI for 1935 is 60.50. The CLI for 1934 is 60.00. The CLI for 1933 is 59.50. The CLI for 1932 is 59.00. The CLI for 1931 is 58.50. The CLI for 1930 is 58.00. The CLI for 1929 is 57.50. The CLI for 1928 is 57.00. The CLI for 1927 is 56.50. The CLI for 1926 is 56.00. The CLI for 1925 is 55.50. The CLI for 1924 is 55.00. The CLI for 1923 is 54.50. The CLI for 1922 is 54.00. The CLI for 1921 is 53.50. The CLI for 1920 is 53.00. The CLI for 1919 is 52.50. The CLI for 1918 is 52.00. The CLI for 1917 is 51.50. The CLI for 1916 is 51.00. The CLI for 1915 is 50.50. The CLI for 1914 is 50.00. The CLI for 1913 is 49.50. The CLI for 1912 is 49.00. The CLI for 1911 is 48.50. The CLI for 1910 is 48.00. The CLI for 1909 is 47.50. The CLI for 1908 is 47.00. The CLI for 1907 is 46.50. The CLI for 1906 is 46.00. The CLI for 1905 is 45.50. The CLI for 1904 is 45.00. The CLI for 1903 is 44.50. The CLI for 1902 is 44.00. The CLI for 1901 is 43.50. The CLI for 1900 is 43.00. The CLI for 1899 is 42.50. The CLI for 1898 is 42.00. The CLI for 1897 is 41.50. The CLI for 1896 is 41.00. The CLI for 1895 is 40.50. The CLI for 1894 is 40.00. The CLI for 1893 is 39.50. The CLI for 1892 is 39.00. The CLI for 1891 is 38.50. The CLI for 1890 is 38.00. The CLI for 1889 is 37.50. The CLI for 1888 is 37.00. The CLI for 1887 is 36.50. The CLI for 1886 is 36.00. The CLI for 1885 is 35.50. The CLI for 1884 is 35.00. The CLI for 1883 is 34.50. The CLI for 1882 is 34.00. The CLI for 1881 is 33.50. The CLI for 1880 is 33.00. The CLI for 1879 is 32.50. The CLI for 1878 is 32.00. The CLI for 1877 is 31.50. The CLI for 1876 is 31.00. The CLI for 1875 is 30.50. The CLI for 1874 is 30.00. The CLI for 1873 is 29.50. The CLI for 1872 is 29.00. The CLI for 1871 is 28.50. The CLI for 1870 is 28.00. The CLI for 1869 is 27.50. The CLI for 1868 is 27.00. The CLI for 1867 is 26.50. The CLI for 1866 is 26.00. The CLI for 1865 is 25.50. The CLI for 1864 is 25.00. The CLI for 1863 is 24.50. The CLI for 1862 is 24.00. The CLI for 1861 is 23.50. The CLI for 1860 is 23.00. The CLI for 1859 is 22.50. The CLI for 1858 is 22.00. The CLI for 1857 is 21.50. The CLI for 1856 is 21.00. The CLI for 1855 is 20.50. The CLI for 1854 is 20.00. The CLI for 1853 is 19.50. The CLI for 1852 is 19.00. The CLI for 1851 is 18.50. The CLI for 1850 is 18.00. The CLI for 1849 is 17.50. The CLI for 1848 is 17.00. The CLI for 1847 is 16.50. The CLI for 1846 is 16.00. The CLI for 1845 is 15.50. The CLI for 1844 is 15.00. The CLI for 1843 is 14.50. The CLI for 1842 is 14.00. The CLI for 1841 is 13.50. The CLI for 1840 is 13.00. The CLI for 1839 is 12.50. The CLI for 1838 is 12.00. The CLI for 1837 is 11.50. The CLI for 1836 is 11.00. The CLI for 1835 is 10.50. The CLI for 1834 is 10.00. The CLI for 1833 is 9.50. The CLI for 1832 is 9.00. The CLI for 1831 is 8.50. The CLI for 1830 is 8.00. The CLI for 1829 is 7.50. The CLI for 1828 is 7.00. The CLI for 1827 is 6.50. The CLI for 1826 is 6.00. The CLI for 1825 is 5.50. The CLI for 1824 is 5.00. The CLI for 1823 is 4.50. The CLI for 1822 is 4.00. The CLI for 1821 is 3.50. The CLI for 1820 is 3.00. The CLI for 1819 is 2.50. The CLI for 1818 is 2.00. The CLI for 1817 is 1.50. The CLI for 1816 is 1.00. The CLI for 1815 is 0.50. The CLI for 1814 is 0.00. The CLI for 1813 is -0.50. The CLI for 1812 is -1.00. The CLI for 1811 is -1.50. The CLI for 1810 is -2.00. The CLI for 1809 is -2.50. The CLI for 1808 is -3.00. The CLI for 1807 is -3.50. The CLI for 1806 is -4.00. The CLI for 1805 is -4.50. The CLI for 1804 is -5.00. The CLI for 1803 is -5.50. The CLI for 1802 is -6.00. The CLI for 1801 is -6.50. The CLI for 1800 is -7.00. The CLI for 1799 is -7.50. The CLI for 1798 is -8.00. The CLI for 1797 is -8.50. The CLI for 1796 is -9.00. The CLI for 1795 is -9.50. The CLI for 1794 is -10.00. The CLI for 1793 is -10.50. The CLI for 1792 is -11.00. The CLI for 1791 is -11.50. The CLI for 1790 is -12.00. The CLI for 1789 is -12.50. The CLI for 1788 is -13.00. The CLI for 1787 is -13.50. The CLI for 1786 is -14.00. The CLI for 1785 is -14.50. The CLI for 1784 is -15.00. The CLI for 1783 is -15.50. The CLI for 1782 is -16.00. The CLI for 1781 is -16.50. The CLI for 1780 is -17.00. The CLI for 1779 is -17.50. The CLI for 1778 is -18.00. The CLI for 1777 is -18.50. The CLI for 1776 is -19.00. The CLI for 1775 is -19.50. The CLI for 1774 is -20.00. The CLI for 1773 is -20.50. The CLI for 1772 is -21.00. The CLI for 1771 is -21.50. The CLI for 1770 is -22.00. The CLI for 1769 is -22.50. The CLI for 1768 is -23.00. The CLI for 1767 is -23.50. The CLI for 1766 is -24.00. The CLI for 1765 is -24.50. The CLI for 1764 is -25.00. The CLI for 1763 is -25.50. The CLI for 1762 is -26.00. The CLI for 1761 is -26.50. The CLI for 1760 is -27.00. The CLI for 1759 is -27.50. The CLI for 1758 is -28.00. The CLI for 1757 is -28.50. The CLI for 1756 is -29.00. The CLI for 1755 is -29.50. The CLI for 1754 is -30.00. The CLI for 1753 is -30.50. The CLI for 1752 is -31.00. The CLI for 1751 is -31.50. The CLI for 1750 is -32.00. The CLI for 1749 is -32.50. The CLI for 1748 is -33.00. The CLI for 1747 is -33.50. The CLI for 1746 is -34.00. The CLI for 1745 is -34.50. The CLI for 1744 is -35.00. The CLI for 1743 is -35.50. The CLI for 1742 is -36.00. The CLI for 1741 is -36.50. The CLI for 1740 is -37.00. The CLI for 1739 is -37.50. The CLI for 1738 is -38.00. The CLI for 1737 is -38.50. The CLI for 1736 is -39.00. The CLI for 1735 is -39.50. The CLI for 1734 is -40.00. The CLI for 1733 is -40.50. The CLI for 1732 is -41.00. The CLI for 1731 is -41.50. The CLI for 1730 is -42.00. The CLI for 1729 is -42.50. The CLI for 1728 is -43.00. The CLI for 1727 is -43.50. The CLI for 1726 is -44.00. The CLI for 1725 is -44.50. The CLI for 1724 is -45.00. The CLI for 1723 is -45.50. The CLI for 1722 is -46.00. The CLI for 1721 is -46.50. The CLI for 1720 is -47.00. The CLI for 1719 is -47.50. The CLI for 1718 is -48.00. The CLI for 1717 is -48.50. The CLI for 1716 is -49.00. The CLI for 1715 is -49.50. The CLI for 1714 is -50.00. The CLI for 1713 is -50.50. The CLI for 1712 is -51.00. The CLI for 1711 is -51.50. The CLI for 1710 is -52.00. The CLI for 1709 is -52.50. The CLI for 1708 is -53.00. The CLI for 1707 is -53.50. The CLI for 1706 is -54.00. The CLI for 1705 is -54.50. The CLI for 1704 is -55.00. The CLI for 1703 is -55.50. The CLI for 1702 is -56.00. The CLI for 1701 is -56.50. The CLI for 1700 is -57.00. The CLI for 1699 is -57.50. The CLI for 1698 is -58.00. The CLI for 1697 is -58.50. The CLI for 1696 is -59.00. The CLI for 1695 is -59.50. The CLI for 1694 is -60.00. The CLI for 1693 is -60.50. The CLI for 1692 is -61.00. The CLI for 1691 is -61.50. The CLI for 1690 is -62.00. The CLI for 1689 is -62.50. The CLI for 1688 is -63.00. The CLI for 1687 is -63.50. The CLI for 1686 is -64.00. The CLI for 1685 is -64.50. The CLI for 1684 is -65.00. The CLI for 1683 is -65.50. The CLI for 1682 is -66.00. The CLI for 1681 is -66.50. The CLI for 1680 is -67.00. The CLI for 1679 is -67.50. The CLI for 1678 is -68.00. The CLI for 1677 is -68.50. The CLI for 1676 is -69.00. The CLI for 1675 is -69.50. The CLI for 1674 is -70.00. The CLI for 1673 is -70.50. The CLI for 1672 is -71.00. The CLI for 1671 is -71.50. The CLI for 1670 is -72.00. The CLI for 1669 is -72.50. The CLI for 1668 is -73.00. The CLI for 1667 is -73.50. The CLI for 1666 is -74.00. The CLI for 1665 is -74.50. The CLI for 1664 is -75.00. The CLI for 1663 is -75.50. The CLI for 1662 is -76.00. The CLI for 1661 is -76.50. The CLI for 1660 is -77.00. The CLI for 1659 is -77.50. The CLI for 1658 is -78.00. The CLI for 1657 is -78.50. The CLI for 1656 is -79.00. The CLI for 1655 is -79.50. The CLI for 1654 is -80.00. The CLI for 1653 is -80.50. The CLI for 1652 is -81.00. The CLI for 1651 is -81.50. The CLI for 1650 is -82.00. The CLI for 1649 is -82.50. The CLI for 1648 is -83.00. The CLI for 1647 is -83.50. The CLI for 1646 is -84.00. The CLI for 1645 is -84.50. The CLI for 1644 is -85.00. The CLI for 1643 is -85.50. The CLI for 1642 is -86.00. The CLI for 1641 is -86.50. The CLI for 1640 is -87.00. The CLI for 1639 is -87.50. The CLI for 1638 is -88.00. The CLI for 1637 is -88.50. The CLI for 1636 is -89.00. The CLI for 1635 is -89.50. The CLI for 1634 is -90.00. The CLI for 1633 is -90.50. The CLI for 1632 is -91.00. The CLI for 1631 is -91.50. The CLI for 1630 is -92.00. The CLI for 1629 is -92.50. The CLI for 1628 is -93.00. The CLI for 1627 is -93.50. The CLI for 1626 is -94.00. The CLI for 1625 is -94.50. The CLI for 1624 is -95.00. The CLI for 1623 is -95.50. The CLI for 1622 is -96.00. The CLI for 1621 is -96.50. The CLI for 1620 is -97.00. The CLI for 1619 is -97.50. The CLI for 1618 is -98.00. The CLI for 1617 is -98.50. The CLI for 1616 is -99.00. The CLI for 1615 is -99.50. The CLI for 1614 is -100.00. The CLI for 1613 is -100.50. The CLI for 1612 is -101.00. The CLI for 1611 is -101.50. The CLI for 1610 is -102.00. The CLI for 1609 is -102.50. The CLI for 1608 is -103.00. The CLI for 1607 is -103.50. The CLI for 1606 is -104.00. The CLI for 1605 is -104.50. The CLI for 1604 is -105.00. The CLI for 1603 is -105.50. The CLI for 1602 is -106.00. The CLI for 1601 is -106.50. The CLI for 1600 is -107.00. The CLI for 1599 is -107.50. The CLI for 1598 is -108.00. The CLI for 1597 is -108.50. The CLI for 1596 is -109.00. The CLI for 1595 is -109.50. The CLI for 1594 is -110.00. The CLI for 1593 is -110.50. The CLI for 1592 is -111.00. The CLI for 1591 is -111.50. The CLI for 1590 is -112.00. The CLI for 1589 is -112.50. The CLI for 1588 is -113.00. The CLI for 1587 is -113.50. The CLI for 1586 is -114.00. The CLI for 1585 is -114.50. The CLI for 1584 is -115.00. The CLI for 1583 is -115.50. The CLI for 1582 is -116.00. The CLI for 1581 is -116.50. The CLI for 1580 is -117.00. The CLI for 1579 is -117.50. The CLI for 1578 is -118.00. The CLI for 1577 is -118.50. The CLI for 1576 is -119.00. The CLI for 1575 is -119.50. The CLI for 1574 is -120.00. The CLI for 1573 is -120.50. The CLI for 1572 is -121.00. The CLI for 1571 is -121.50. The CLI for 1570 is -122.00. The CLI for 1569 is -122.50. The CLI for 1568 is -123.00. The CLI for 1567 is -123.50. The CLI for 1566 is -124.00. The CLI for 1565 is -124.50. The CLI for 1564 is -125.00. The CLI for 1563 is -125.50. The CLI for 1562 is -126.00. The CLI for 1561 is -126.50. The CLI for 1560 is -127.00. The CLI for 1559 is -127.50. The CLI for 1558 is -128.00. The CLI for 1557 is -128.50. The CLI for 1556 is -129.00. The CLI for 1555 is -129.50. The CLI for 1554 is -130.00. The CLI for 1553 is -130.50. The CLI for 1552 is -131.00. The CLI for 1551 is -131.50. The CLI for 1550 is -132.00. The CLI for 1549 is -132.50. The CLI for 1548 is -133.00. The CLI for 1547 is -133.50. The CLI for 1546 is -134.00. The CLI for 1545 is -134.50. The CLI for 1544 is -135.00. The CLI for 1543 is -135.50. The CLI for 1542 is -136.00. The CLI for 1541 is -136.50. The CLI for 1540 is -137.00. The CLI for 1539 is -137.50. The CLI for 1538 is -138.00. The CLI for 1537 is -138.50. The CLI for 1536 is -139.00. The CLI for 1535 is -139.50. The CLI for 1534 is -140.00. The CLI for 1533 is -140.50. The CLI for 1532 is -141.00. The CLI for 1531 is -141.50. The CLI for 1530 is -142.00. The CLI for 1529 is -142.50. The CLI for 1528 is -143.00. The CLI for 1527 is -143.50. The CLI for 1526 is -144.00. The CLI for 1525 is -144.50. The CLI for 1524 is -145.00. The CLI for 1523 is -145.50. The CLI for 1522 is -146.00. The CLI for 1521 is -146.50. The CLI for 1520 is -147.00. The CLI for 1519 is -147.50. The CLI for 1518 is -148.00. The CLI for 1517 is -148.50. The CLI for 1516 is -149.00. The CLI for 1515 is -149.50. The CLI for 1514 is -150.00. The CLI for 1513 is -150.50. The CLI for 1512 is -151.00. The CLI for 1511 is -151.50. The CLI for 1510 is -152.00. The CLI for 1509 is -152.50. The CLI for 1508 is -153.00. The CLI for 1507 is -153.50. The CLI for 1506 is -154.00. The CLI for 1505 is -154.50. The CLI for 1504 is -155.00. The CLI for 1503 is -155.50. The CLI for 1502 is -156.00. The CLI for 1501 is -156.50. The CLI for 1500 is -157.00. The CLI for 1499 is -157.50. The CLI for 1498 is -158.00. The CLI for 1497 is -158.50. The CLI for 1496 is -159.00. The CLI for 1495 is -159.50. The CLI for 1494 is -160.00. The CLI for 1493 is -160.50. The CLI for 1492 is -161.00. The CLI for 1491 is -161.50. The CLI for 1490 is -162.00. The CLI for 1489 is -162.50. The CLI for 1488 is -163.00. The CLI for 1487 is -163.50. The CLI for 1486 is -164.00. The CLI for 1485 is -164.50. The CLI for 1484 is -165.00. The CLI for 1483 is -165.50. The CLI for 1482 is -166.00. The CLI for 1481 is -166.50. The CLI for 1480 is -167.00. The CLI for 1479 is -167.50. The CLI for 1478 is -168.00. The CLI for 1477 is -168.50. The CLI for 1476 is -169.00. The CLI for 1475 is -169.50. The CLI for 1474 is -170.00. The CLI for 1473 is -170.50. The CLI for 1472 is -171.00. The CLI for 1471 is -171.50. The CLI for 1470 is -172.00. The CLI for 1469 is -172.50. The CLI for 1468 is -173.00. The CLI for 1467 is -173.50. The CLI for 1466 is -174.00. The CLI for 1465 is -174.50. The CLI for 1464 is -175.00. The CLI for 1463 is -175.50. The CLI for 1462 is -176.00. The CLI for 1461 is -176.50. The CLI for 1460 is -177.00. The CLI for 1459 is -177.50. The CLI for 1458 is -178.00. The CLI for 1457 is -178.50. The CLI for 1456 is -179.00. The CLI for 1455 is -179.50. The CLI for 1454 is -180.00. The CLI for 1453 is -180.50. The CLI for 1452 is -181.00. The CLI for 1451 is -181.50. The CLI for 1450 is -182.00. The CLI for 1449 is -182.50. The CLI for 1448 is -183.00. The CLI for 1447 is -183.50. The CLI for 1446 is -184.00. The CLI for 1445 is -184.50. The CLI for 1444 is -185.00. The CLI for 1443 is -185.50. The CLI for 1442 is -186.00. The CLI for 1441 is -186.50. The CLI for 1440 is -187.00. The CLI for 1439 is -187.50. The CLI for 1438 is -188.00. The CLI for 1437 is -188.50. The CLI for 1436 is -189.00. The CLI for 1435 is -189.50. The CLI for 1434 is -190.00. The CLI for 1433 is -190.50. The CLI for 1432 is -191.00. The CLI for 1431 is -191.50. The CLI for 1430 is -192.00. The CLI for 1429 is -192.50. The CLI for 1428 is -193.00. The CLI for 1427 is -193.50. The CLI for 1426 is -194.00. The CLI for 1425 is -194.50. The CLI for 1424 is -195.00. The CLI for 1423 is -195.50. The CLI for 1422 is -196.00. The CLI for 1421 is -196.50. The CLI for 1420 is -197.00. The CLI for 1419 is -197.50. The CLI for 1418 is -198.00. The CLI for 1417 is -198.50. The CLI for 1416 is -199.00. The CLI for 1415 is -199.50. The CLI for 1414 is -200.00. The CLI for 1413 is -200.50. The CLI for 1412 is -201.00. The CLI for 1411 is -201.50. The CLI for 1410 is -202.00. The CLI for 1409 is -202.50. The CLI for 1408 is -203.00. The CLI for 1407 is -203.50. The CLI for 1406 is -204.00. The CLI for 1405 is -204.50. The CLI for 1404 is -205.00. The CLI for 1403 is -205.50. The CLI for 1402 is -206.00. The CLI for 1401 is -206.50. The CLI for 1400 is -207.00. The CLI for 1399 is -207.50. The CLI for 1398 is -208.00. The CLI for 1397 is -208.50. The CLI for 1396 is -209.00. The CLI for 1395 is -209.50. The CLI for 1394 is -210.00. The CLI for 1393 is -210.50. The CLI for 1392 is -211.00. The CLI for 1391 is -211.50. The CLI for 1390 is -212.00. The CLI for 1389 is -212.50. The CLI for 1388 is -213.00. The CLI for 1387 is -213.50. The CLI for 1386 is -214.00. The CLI for 1385 is -214.50. The CLI for 1384 is -215.00. The CLI for 1383 is -215.50. The CLI for 1382 is -216.00. The CLI for 1381 is -216.50. The CLI for 1380 is -217.00. The CLI for 1379 is -217.50. The CLI for 1378 is -218.00. The CLI for 1377 is -218.50. The CLI for 1376 is -219.00. The CLI for 1375 is -219.50. The CLI for 1374 is -220.00. The CLI for 1373 is -220.50. The CLI for 1372 is -221.00. The CLI for 1371 is -221.50. The CLI for 1370 is -222.00. The CLI for 1369 is -222.50. The CLI for 1368 is -223.00. The CLI for 1367 is -223.50. The CLI for 1366 is -224.00. The CLI for 1365 is -224.50. The CLI for 1364 is -225.00. The CLI for 1363 is -225.50. The CLI for 1362 is -226.00. The CLI for 1361 is -226.50. The CLI for 1360 is -227.00. The CLI for 1359 is -227.50. The CLI for 1358 is -228.00. The CLI for 1357 is -228.50. The CLI for 1356 is -229.00. The CLI for 1355 is -229.50. The CLI for 1354 is -230.00. The CLI for 1353 is -230.50. The CLI for 1352 is -231.00. The CLI for 1351 is -231.50. The CLI for 1350 is -232.00. The CLI for 1349 is -232.50. The CLI for 1348 is -233.00. The CLI for 1347 is -233.50. The CLI for 1346 is -234.00. The CLI for 1345 is -234.50. The CLI for 1344 is -235.00. The CLI for 1343 is -235.50. The CLI for 1342 is -236.00. The CLI for 1341 is -236.50. The CLI for 1340 is -237.00. The CLI for 1339 is -237.50. The CLI for 1338 is -238.00. The CLI for 1337 is -238.50. The CLI for 1336 is -239.00. The CLI for 1335 is -239.50. The CLI for 1334 is -240.00. The CLI for 1333 is -240.50. The CLI for 1332 is -241.00. The CLI for 1331 is -241.50. The CLI for 1330 is -242.00. The CLI for 1329 is -242.50. The CLI for 1328 is -243.00. The CLI for 1327 is -243.50. The CLI for 1326 is -244.00. The CLI for

Accident Statistics at Workplaces



Fatal accident/ 100,000 workers





Points to take home

Between 2004 and 2013...

460, 022 workers suffered from an injury
caused by their job.

810 workers died at construction sites.



Two main statutes

Occupational Safety and Health Act
1994 (OSHA)

Factories and Machinery Act 1967
(FMA)



Main regulations

Factories and Machinery (Building Operations and Works of Engineering Construction) (Safety) Regulations 1986 (BOWECS)

Factories and Machinery (Safety, Health & Welfare) Regulations 1970



Main guidelines

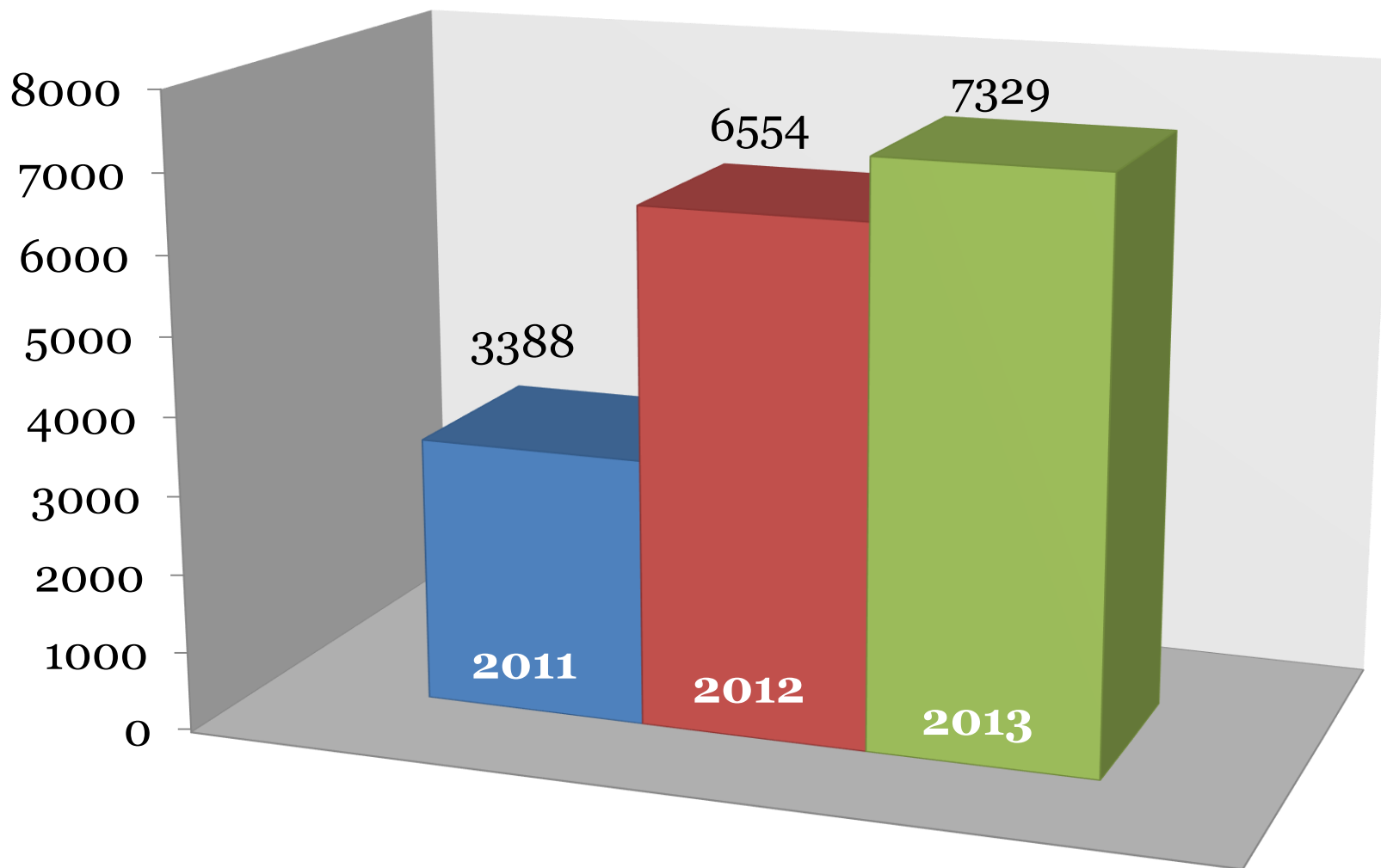
Guidelines for Public Safety and Health at
Construction Sites 2007

Guidelines for the Prevention of Falls at
Workplaces 2007

Guidelines on Trenching for Construction
Safety 2000

Guidelines on OSH in Tunnel Construction
1998

Work Site Inspection





Against all odds

- Registered construction site
 - 23,161
- Ratio of no. of inspection/ registered site
 - $7,329 / 23,161 = 0.32$
 - Inspections only cover 1/3 of registered site
- Ratio of registered site/ no. of officers
 - $23,161 / 106 = 218$



Looking forward

Inspection to be more focused to generic
issues

Accident-prone-based inspection

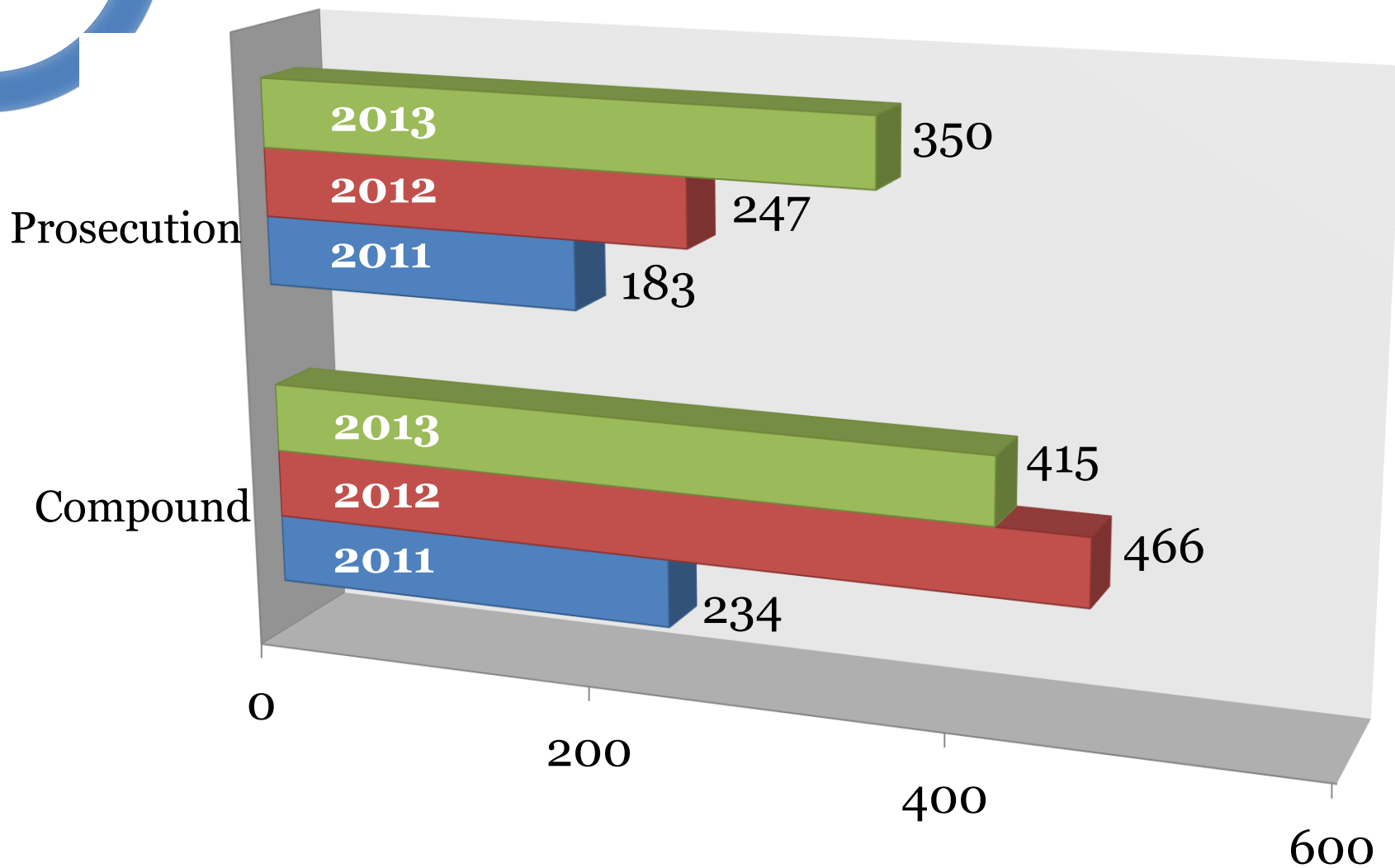
Working at height

Lifting operations

Trenching

Designated person

Securing justice



Securing justice

**Litigation
2009/10**

Construction, 28%

Others, 72%

**Total
RM 0.98 million**

* excl. compound

Securing justice

Litigation 2011

Construction, 33%

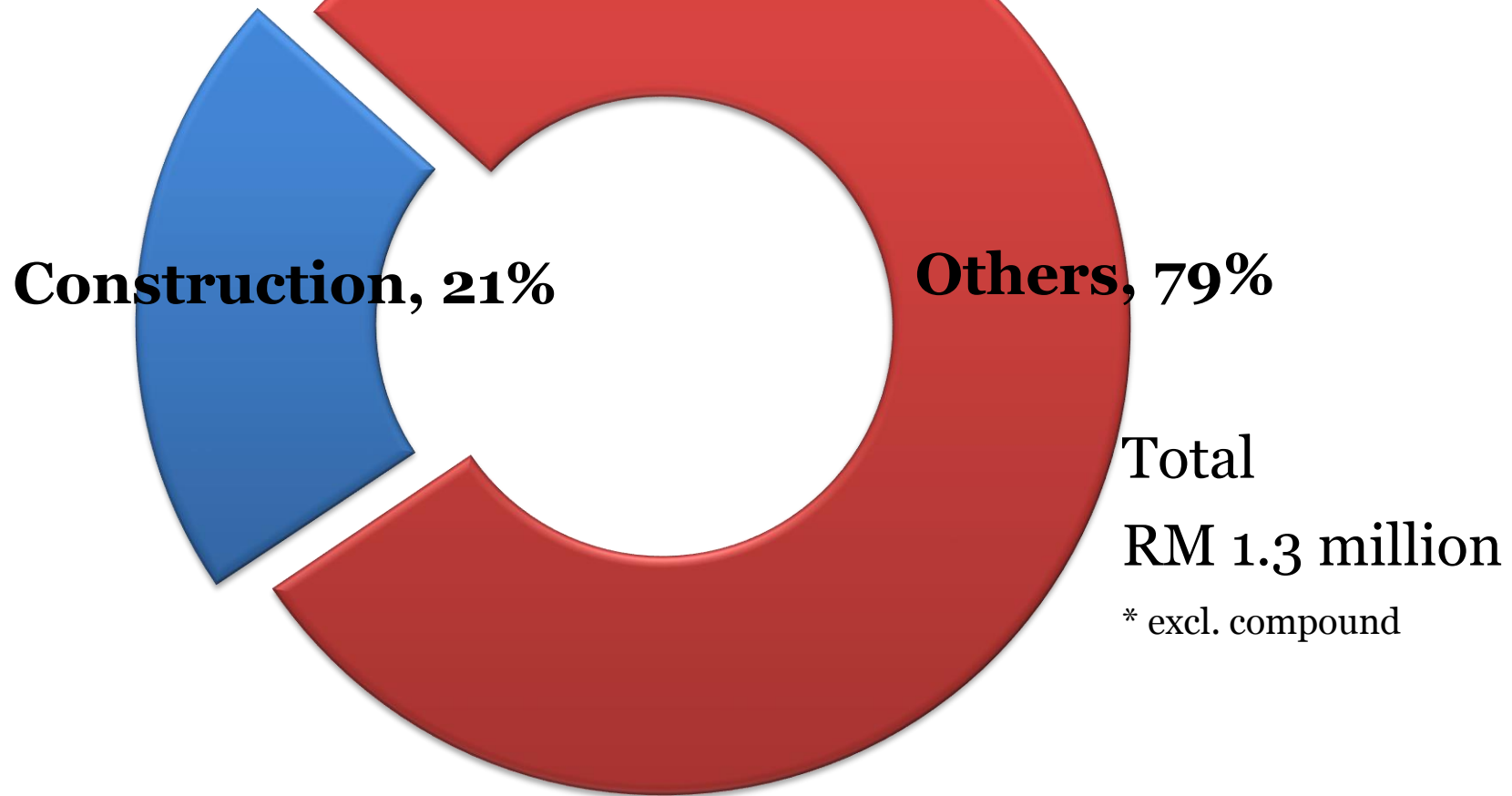
Others, 67%

Total
RM 1.1 million

* excl. compound

Securing justice

Litigation 2012





Points to take home

Between 2009 – 2012, the maximum fine imposed by the Court was RM 50,000, for breaching AKJ 19(1) and OSHA 15(1), respectively
and the maximum prison sentence was 2 years (USECHH, Reg. 9(1)).



Point to take home

The maximum fine impose by the Court to a contractor was RM 35,000, for breaching OSHA 15(1)

Can you afford that to happen to you?



Widening prosecution net

Current prosecution mainly falls on the
main contractors under Section 15,
OSHA

Sufficient evidence will be seek to charge
client, consultant and self-employed
under Section 17, OSHA



Specific duties of employer

OSHA, Section 15(2)(a)

Provide and maintain risk-based work
procedure

Provide and maintain machinery, appliance,
equipment

That are safe and free from risk

Looking outside the site gate

Examining how clients and consultants have and can influence OSH standards on site





Planning to succeed

Continuing engagement with the
duty holders

Continuing proposals for revised
OSHA 1994 and BOWECS 1986

Let's end with the beginning



1

OSH
Research &
Development

2

Inspection

3

Litigation

Let's end with the beginning



1

OSH
Research &
Development

2

Inspection

catch me
if you can

3

Litigation

Let's end with the beginning



OSH
Research &
Development



Inspection



Litigation

