

Logistic Regression Modeling (cleaned__12__Oct.csv)

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07/10/2020

Attributes:

- 1: StageName
- 2: RecordType.Name
- 3: RICE_Supported___c
- 4: Lead_Faculty___c
- 5: Lead_School___c
- 6: Parent_Opportunity___c
- 7: Industry
- 8: Industry_Sub_Type___c
- 9: Business_Type___c
- 10: Is_External___c
- 11: ParentId
- 12: tasks_events
- 13: CreatedYear
- 14: CreatedMonth
- 15: year_length
- 16: oppo_busi
- 17: fac_oppo
- 18: oppo_Industry

19: RN

20: f_won_before

Reading Data In

```
data <- read.csv("/Users/ChantelleChiu/Documents/GitHub/Project-90106-G28/Chantelle/clea
                header = TRUE, stringsAsFactors = T)
names(data) <- c("X1", "X2", "X3", "X4", "X5", "X6", "X7", "X8", "X9", "X10",
                "X11", "X12", "X13", "X14", "X15", "X16", "X17", "X18", "X19", "X20")

summary(data)
```

```
##           X1                               X2
## Min.      :0.0000   Research Contract           :2565
## 1st Qu.:0.0000   Custom Education (MSPACE Included):1105
## Median :0.0000   Grants                          : 662
## Mean     :0.3737   Consultancy (Non-research)      : 462
## 3rd Qu.:1.0000   Technology Transfer                : 304
## Max.     :1.0000   Competitive Bid                      : 89
##                               (Other)                : 221
##           X3                               X4                               X5
## Not supported : 413   0012e000002ZGfbAAG:1033   NotGiven :2397
## RIC RE&D and BD&I:2649 0012e000002ZLg7AAG: 874   0012e000002Zt0cAAC: 386
## RIC-BD&I      :2075   NotGiven : 820   0012e000002Zt0mAAC: 368
## RIC-RE&D      : 271   0012e000002Zmo0AAC: 755   0012e000002Z3pPAAS: 190
##                               0012e000002ZmnxAAC: 598   0012e000002Zt10AAC: 190
##                               0012e000002ZLgJAAW: 272   0012e000002Zt0bAAC: 158
##                               (Other) :1056   (Other) :1719
##           X6                               X7
## Min.      :0.00000   Services :2048
## 1st Qu.:0.00000   Health :1146
## Median :0.00000   Public Administration : 693
## Mean     :0.09874   Defence : 386
## 3rd Qu.:0.00000   Agriculture & Horticulture : 212
## Max.     :1.00000   Technology: IT & Telephone Services: 205
##                               (Other) : 718
##           X8
## Education :1209
## Public Administration : 693
## Health Care & Healthy Aging: 587
## Defence : 386
## Community : 281
## Pharmaceuticals : 278
## (Other) :1974
##           X9           X10           X11
```

```

## Government: Australia: Local & State :1126 Min. :0.0000 Min. :0.0000
## Government: Australia: Federal :1007 1st Qu.:1.0000 1st Qu.:0.0000
## SME (small to medium enterprise) : 756 Median :1.0000 Median :0.0000
## Not for profit : 689 Mean :0.9926 Mean :0.1627
## Multinational / Other Large Corporate: 680 3rd Qu.:1.0000 3rd Qu.:0.0000
## University : 446 Max. :1.0000 Max. :1.0000
## (Other) : 704
## X12 X13 X14 X15
## Min. :0.00000 Min. :2015 Min. : 1.000 Min. : -1.000
## 1st Qu.:0.00000 1st Qu.:2017 1st Qu.: 4.000 1st Qu.: 0.000
## Median :0.00000 Median :2018 Median : 6.000 Median : 1.000
## Mean :0.06361 Mean :2018 Mean : 6.323 Mean : 1.108
## 3rd Qu.:0.00000 3rd Qu.:2019 3rd Qu.: 9.000 3rd Qu.: 2.000
## Max. :1.00000 Max. :2020 Max. :12.000 Max. :31.000
##
## X16
## Research ContractGovernment: Australia: Local & State : 512
## Research ContractGovernment: Australia: Federal : 472
## Research ContractMultinational / Other Large Corporate: 443
## Research ContractSME (small to medium enterprise) : 403
## Custom Education (MSPACE Included)University : 316
## Research ContractNot for profit : 296
## (Other) :2966
## X17
## 0012e000002ZLg7AAGResearch Contract : 583
## 0012e000002ZmnxAACResearch Contract : 437
## 0012e000002ZGfbAAGResearch Contract : 396
## NotGivenResearch Contract : 381
## 0012e000002Zmo0AACCcustom Education (MSPACE Included): 279
## 0012e000002ZGfbAAGGrants : 270
## (Other) :3062
## X18 X19
## Research ContractServices : 752 Min. : 1.00
## Custom Education (MSPACE Included)Services: 700 1st Qu.: 1.00
## Research ContractHealth : 527 Median : 2.00
## Research ContractDefence : 314 Mean : 23.11
## Research ContractPublic Administration : 270 3rd Qu.: 15.00
## Consultancy (Non-research)Services : 255 Max. :279.00
## (Other) :2590
## X20
## Min. :0.0000
## 1st Qu.:0.0000
## Median :0.0000
## Mean :0.4571
## 3rd Qu.:1.0000

```

```
## Max. :1.0000
##
```

Build regression model with 1 predictor ("StageName") and 19 features (X2-X20)

```
# 10-fold cross_validation
```

```
train_control <- trainControl(method = "cv", number = 10)
```

```
# train the model on data set
```

```
model <- train(factor(X1)~X2+X3+X4+X5+factor(X6)+X7+X8+X9+factor(X10)+factor(X11)+factor(X12)+factor(X13)+factor(X14)+factor(X15)+factor(X16)+factor(X17)+factor(X18)+factor(X19)+factor(X20),
  data = data,
  trControl = train_control,
  method = "glm",
  family="binomial")
```

```
summary(model)
```

```
##
## Call:
## NULL
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -8.49      0.00      0.00      0.00      8.49
##
## Coefficients: (105 not defined because of singularities)
##
## (Intercept)
## `X2Competitive Bid`
## `X2Consultancy (Non-research)`
## `X2Custom Education (MSPACE Included)`
## X2Grants
## X2Internship
## X2Panel
## `X2Parent Grant`
## X2Philanthropic
## `X2Research Contract`
## X2Sponsorship
## `X2Technology Transfer`
## `X3RIC RE&D and BD&I`
## `X3RIC-BD&I`
## `X3RIC-RE&D`
## X40012e000002ZGfbAAG
## X40012e000002ZLg7AAG
## X40012e000002ZLgIAAW
## X40012e000002ZLgJAAW
```

X40012e000002ZmnxAAC
X40012e000002ZmnzAAC
X40012e000002Zmo0AAC
X40012e000002Zm0UAAO
X40012e000002Zm0ZAAO
X40012e000002ZNY0AA4
X40012e000002Zt0MAAS
X40012e000002Zt1iAAC
X40012e000002Zt1RAAS
X40012e000002Zt1zAAC
X4NotGiven
X50012e000002YlvyAAC
X50012e000002Ym9QAAS
X50012e000002YmBqAAK
X50012e000002YmMXAAO
X50012e000002YmNRAAO
X50012e000002YmVtAAK
X50012e000002YneJAAS
X50012e000002YnERAAO
X50012e000002YnrYAAS
X50012e000002YoY7AAK
X50012e000002YoYUAAO
X50012e000002Z30uAAK
X50012e000002Z3p1AAC
X50012e000002Z3pPAAS
X50012e000002Z4IxAAK
X50012e000002Z4JyAAK
X50012e000002Z4oNAAS
X50012e000002Z51dAAC
X50012e000002Z51eAAC
X50012e000002Z67WAAS
X50012e000002Z6AWAAO
X50012e000002ZLgBAAW
X50012e000002ZLg0AAW
X50012e000002ZlmBAAS
X50012e000002Zt0bAAC
X50012e000002Zt0cAAC
X50012e000002Zt0gAAC
X50012e000002Zt0hAAC
X50012e000002Zt0jAAC
X50012e000002Zt0mAAC
X50012e000002Zt0nAAC
X50012e000002Zt0rAAC
X50012e000002Zt0XAAS
X50012e000002Zt0YAAS

```

## X50012e000002Zt0ZAAS
## X50012e000002Zt10AAC
## X50012e000002Zt1FAAS
## X50012e000002Zt1MAAS
## X50012e000002Zt1PAAS
## X50012e000002Zt1VAAS
## X50012e000002Zt20AAC
## X50012e000002Zt21AAC
## X50012e000002Zt25AAC
## X50012e000002Zt28AAC
## X50012e000003jZXsAAM
## X5NotGiven
## `factor(X6)1`
## `X7Agriculture & Horticulture`
## `X7Aquaculture & Fisheries`
## `X7Construction & Construction Materials`
## X7Defence
## X7Education
## `X7Energy & Utilities`
## `X7Forestry & Paper`
## X7Health
## `X7Manufacturing & R&D`
## `X7Materials: Chemicals & Industrial Metals`
## `X7Mining & Refining`
## `X7Mining Equipment and Technology Services`
## `X7Public Administration`
## X7Services
## `X7Technology: IT & Telephone Services`
## X7Transportation
## `X7Transportation & Logistics`
## X7UNKNOWN
## X7Veterinary
## X8Aerospace
## `X8Agriculture & Horticulture`
## `X8Aquaculture & Fisheries`
## `X8Automobiles, Heavy Vehicles & Industrial Machinery`
## `X8Biotechnology (non-Pharma)`
## `X8Business & Professional`
## X8Community
## `X8Construction & Construction Materials`
## `X8Consumer Goods`
## X8Defence
## X8Diagnostics
## X8Education
## `X8Energy & Utilities`

```

```

## `X8Engineering and Scientific`
## `X8Entertainment & Creative Industries`
## X8Environmental
## `X8Financial & Insurance`
## `X8Food & Beverage`
## `X8Forestry & Paper`
## `X8Hardware, Electronics and Electrical Equipment`
## `X8Health Care & Healthy Aging`
## `X8Materials: Chemicals & Industrial Metals`
## `X8Medical Devices`
## `X8Mining & Refining`
## `X8Mining Equipment and Technology Services`
## X8Pharmaceuticals
## `X8Public Administration`
## `X8Research Tools/Consumables`
## `X8Retail, Travel, Hospitality & Leisure`
## `X8Technology: IT & Telephone Services`
## X8Transportation
## `X8Transportation & Logistics`
## X8UNKNOWN
## X8Veterinary
## `X9Government: Australia: Federal`
## `X9Government: Australia: Local & State`
## `X9Government: International`
## `X9Large Australian Corporate`
## `X9Multinational / Other Large Corporate`
## `X9Not for profit`
## `X9PFR0 (Publicly-Funded Research Organisation)`
## `X9RDC (Rural Research and Development Corporations)`
## `X9SME (small to medium enterprise)`
## X9University
## `factor(X10)1`
## `factor(X11)1`
## `factor(X12)1`
## X13
## X14
## X15
## `X16Co-LocationLarge Australian Corporate`
## `X16Co-LocationMultinational / Other Large Corporate`
## `X16Co-LocationNot for profit`
## `X16Co-LocationSME (small to medium enterprise)`
## `X16Competitive BidCRC (Co-operative Research Centre)`
## `X16Competitive BidGovernment: Australia: Federal`
## `X16Competitive BidGovernment: Australia: Local & State`
## `X16Competitive BidGovernment: International`

```

```

## `X16Competitive BidLarge Australian Corporate`
## `X16Competitive BidMultinational / Other Large Corporate`
## `X16Competitive BidNot for profit`
## `X16Competitive BidPFR0 (Publicly-Funded Research Organisation)`
## `X16Competitive BidRDC (Rural Research and Development Corporations)`
## `X16Consultancy (Non-research)Government: Australia: Federal`
## `X16Consultancy (Non-research)Government: Australia: Local & State`
## `X16Consultancy (Non-research)Government: International`
## `X16Consultancy (Non-research)Large Australian Corporate`
## `X16Consultancy (Non-research)Multinational / Other Large Corporate`
## `X16Consultancy (Non-research)Not for profit`
## `X16Consultancy (Non-research)PFR0 (Publicly-Funded Research Organisation)`
## `X16Consultancy (Non-research)SME (small to medium enterprise)`
## `X16Consultancy (Non-research)University`
## `X16Custom Education (MSPACE Included)Government: Australia: Federal`
## `X16Custom Education (MSPACE Included)Government: Australia: Local & State`
## `X16Custom Education (MSPACE Included)Government: International`
## `X16Custom Education (MSPACE Included)Large Australian Corporate`
## `X16Custom Education (MSPACE Included)Multinational / Other Large Corporate`
## `X16Custom Education (MSPACE Included)Not for profit`
## `X16Custom Education (MSPACE Included)PFR0 (Publicly-Funded Research Organisation)`
## `X16Custom Education (MSPACE Included)RDC (Rural Research and Development Corporation`
## `X16Custom Education (MSPACE Included)SME (small to medium enterprise)`
## `X16Custom Education (MSPACE Included)University`
## `X16GrantsCRC (Co-operative Research Centre)`
## `X16GrantsGovernment: Australia: Federal`
## `X16GrantsGovernment: Australia: Local & State`
## `X16GrantsGovernment: International`
## `X16GrantsLarge Australian Corporate`
## `X16GrantsMultinational / Other Large Corporate`
## `X16GrantsNot for profit`
## `X16GrantsPFR0 (Publicly-Funded Research Organisation)`
## `X16GrantsRDC (Rural Research and Development Corporations)`
## `X16GrantsSME (small to medium enterprise)`
## X16GrantsUniversity
## `X16InternshipGovernment: Australia: Federal`
## `X16InternshipGovernment: Australia: Local & State`
## `X16InternshipLarge Australian Corporate`
## `X16InternshipMultinational / Other Large Corporate`
## `X16InternshipNot for profit`
## `X16InternshipSME (small to medium enterprise)`
## `X16PanelGovernment: Australia: Federal`
## `X16PanelGovernment: Australia: Local & State`
## `X16PanelGovernment: International`
## `X16PanelNot for profit`

```



```

## X16PanelUniversity
## `X16Parent GrantGovernment: Australia: Federal`
## `X16Parent GrantGovernment: Australia: Local & State`
## `X16Parent GrantNot for profit`
## `X16Parent GrantPFR0 (Publicly-Funded Research Organisation)`
## `X16Parent GrantRDC (Rural Research and Development Corporations)`
## `X16Parent GrantUniversity`
## `X16PhilanthropicGovernment: Australia: Local & State`
## `X16PhilanthropicLarge Australian Corporate`
## `X16PhilanthropicMultinational / Other Large Corporate`
## `X16PhilanthropicNot for profit`
## `X16Research ContractCRC (Co-operative Research Centre)`
## `X16Research ContractGovernment: Australia: Federal`
## `X16Research ContractGovernment: Australia: Local & State`
## `X16Research ContractGovernment: International`
## `X16Research ContractLarge Australian Corporate`
## `X16Research ContractMultinational / Other Large Corporate`
## `X16Research ContractNot for profit`
## `X16Research ContractPFR0 (Publicly-Funded Research Organisation)`
## `X16Research ContractRDC (Rural Research and Development Corporations)`
## `X16Research ContractSME (small to medium enterprise)`
## `X16Research ContractUniversity`
## `X16SponsorshipGovernment: Australia: Federal`
## `X16SponsorshipGovernment: Australia: Local & State`
## `X16SponsorshipGovernment: International`
## `X16SponsorshipLarge Australian Corporate`
## `X16SponsorshipMultinational / Other Large Corporate`
## `X16SponsorshipNot for profit`
## `X16SponsorshipSME (small to medium enterprise)`
## X16SponsorshipUniversity
## `X16Technology TransferGovernment: Australia: Federal`
## `X16Technology TransferGovernment: Australia: Local & State`
## `X16Technology TransferGovernment: International`
## `X16Technology TransferLarge Australian Corporate`
## `X16Technology TransferMultinational / Other Large Corporate`
## `X16Technology TransferNot for profit`
## `X16Technology TransferPFR0 (Publicly-Funded Research Organisation)`
## `X16Technology TransferRDC (Rural Research and Development Corporations)`
## `X16Technology TransferSME (small to medium enterprise)`
## `X16Technology TransferUniversity`
## X170012e000002ZFZYAA4Panel
## `X170012e000002ZFZYAA4Research Contract`
## `X170012e000002ZGfbAAGCompetitive Bid`
## `X170012e000002ZGfbAAGConsultancy (Non-research)`
## `X170012e000002ZGfbAAGCustom Education (MSPACE Included)`

```

```

## X170012e000002ZGfbAAGGrants
## X170012e000002ZGfbAAGInternship
## X170012e000002ZGfbAAGPanel
## X170012e000002ZGfbAAGPhilanthropic
## `X170012e000002ZGfbAAGResearch Contract`
## X170012e000002ZGfbAAGSponsorship
## `X170012e000002ZGfbAAGTechnology Transfer`
## `X170012e000002ZLg7AAGCompetitive Bid`
## `X170012e000002ZLg7AAGConsultancy (Non-research)`
## `X170012e000002ZLg7AAGCustom Education (MSPACE Included)`
## X170012e000002ZLg7AAGGrants
## X170012e000002ZLg7AAGInternship
## X170012e000002ZLg7AAGPanel
## X170012e000002ZLg7AAGPhilanthropic
## `X170012e000002ZLg7AAGResearch Contract`
## X170012e000002ZLg7AAGSponsorship
## `X170012e000002ZLg7AAGTechnology Transfer`
## `X170012e000002ZLgIAAWConsultancy (Non-research)`
## `X170012e000002ZLgIAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgIAAWGrants
## X170012e000002ZLgIAAWPanel
## X170012e000002ZLgIAAWPhilanthropic
## `X170012e000002ZLgIAAWResearch Contract`
## `X170012e000002ZLgIAAWTechnology Transfer`
## `X170012e000002ZLgJAAWCompetitive Bid`
## `X170012e000002ZLgJAAWConsultancy (Non-research)`
## `X170012e000002ZLgJAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgJAAWGrants
## X170012e000002ZLgJAAWInternship
## X170012e000002ZLgJAAWPanel
## X170012e000002ZLgJAAWPhilanthropic
## `X170012e000002ZLgJAAWResearch Contract`
## X170012e000002ZLgJAAWSponsorship
## `X170012e000002ZLgJAAWTechnology Transfer`
## `X170012e000002ZmnxAACConsultancy (Non-research)`
## `X170012e000002ZmnxAACCustom Education (MSPACE Included)`
## X170012e000002ZmnxAACGrants
## X170012e000002ZmnxAACInternship
## X170012e000002ZmnxAACPanel
## X170012e000002ZmnxAACPhilanthropic
## `X170012e000002ZmnxAACResearch Contract`
## X170012e000002ZmnxAACSponsorship
## `X170012e000002ZmnxAACTechnology Transfer`
## `X170012e000002ZmnzAACCompetitive Bid`
## `X170012e000002ZmnzAACConsultancy (Non-research)`

```

```

## `X170012e000002ZmnzAACCustom Education (MSPACE Included)`
## X170012e000002ZmnzAACGrants
## X170012e000002ZmnzAACInternship
## X170012e000002ZmnzAACPanel
## X170012e000002ZmnzAACPhilanthropic
## `X170012e000002ZmnzAACResearch Contract`
## X170012e000002ZmnzAAC Sponsorship
## `X170012e000002ZmnzAACTechnology Transfer`
## `X170012e000002Zmo0AACCompetitive Bid`
## `X170012e000002Zmo0AACConsultancy (Non-research)`
## `X170012e000002Zmo0AACCustom Education (MSPACE Included)`
## X170012e000002Zmo0AACGrants
## X170012e000002Zmo0AACPanel
## X170012e000002Zmo0AACPhilanthropic
## `X170012e000002Zmo0AACResearch Contract`
## X170012e000002Zmo0AAC Sponsorship
## `X170012e000002Zmo0AACTechnology Transfer`
## `X170012e000002ZmOUAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOUAA0Internship
## `X170012e000002ZmOUAA0Research Contract`
## `X170012e000002ZmOZAA0Consultancy (Non-research)`
## `X170012e000002ZmOZAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOZAA0Grants
## X170012e000002ZmOZAA0Internship
## X170012e000002ZmOZAA0Philanthropic
## `X170012e000002ZmOZAA0Research Contract`
## `X170012e000002ZNY0AA4Consultancy (Non-research)`
## `X170012e000002ZNY0AA4Custom Education (MSPACE Included)`
## X170012e000002ZNY0AA4Grants
## X170012e000002ZNY0AA4Internship
## X170012e000002ZNY0AA4Panel
## X170012e000002ZNY0AA4Philanthropic
## `X170012e000002ZNY0AA4Research Contract`
## X170012e000002ZNY0AA4 Sponsorship
## `X170012e000002ZNY0AA4Technology Transfer`
## X170012e000002Zt0MAASGrants
## X170012e000002Zt1iAACGrants
## `X170012e000002Zt1RAASCompetitive Bid`
## `X170012e000002Zt1RAASConsultancy (Non-research)`
## `X170012e000002Zt1RAASCustom Education (MSPACE Included)`
## X170012e000002Zt1RAASGrants
## X170012e000002Zt1RAASPanel
## `X170012e000002Zt1RAASResearch Contract`
## X170012e000002Zt1zAACPhilanthropic
## `X17NotGivenCo-Location`

```

```

## `X17NotGivenCompetitive Bid`
## `X17NotGivenConsultancy (Non-research)`
## `X17NotGivenCustom Education (MSPACE Included)`
## X17NotGivenGrants
## X17NotGivenInternship
## X17NotGivenPanel
## `X17NotGivenParent Grant`
## X17NotGivenPhilanthropic
## `X17NotGivenResearch Contract`
## X17NotGivenSponsorship
## `X17NotGivenTechnology Transfer`
## `X18Co-LocationHealth`
## `X18Co-LocationManufacturing & R&D`
## `X18Co-LocationMining Equipment and Technology Services`
## `X18Co-LocationPublic Administration`
## `X18Co-LocationServices`
## `X18Co-LocationTechnology: IT & Telephone Services`
## `X18Co-LocationTransportation & Logistics`
## `X18Competitive BidAgriculture & Horticulture`
## `X18Competitive BidConstruction & Construction Materials`
## `X18Competitive BidDefence`
## `X18Competitive BidEnergy & Utilities`
## `X18Competitive BidHealth`
## `X18Competitive BidManufacturing & R&D`
## `X18Competitive BidMining & Refining`
## `X18Competitive BidPublic Administration`
## `X18Competitive BidServices`
## `X18Competitive BidTechnology: IT & Telephone Services`
## `X18Competitive BidTransportation & Logistics`
## `X18Consultancy (Non-research)Advertising, Marketing and PR`
## `X18Consultancy (Non-research)Agriculture & Horticulture`
## `X18Consultancy (Non-research)Construction & Construction Materials`
## `X18Consultancy (Non-research)Defence`
## `X18Consultancy (Non-research)Education`
## `X18Consultancy (Non-research)Energy & Utilities`
## `X18Consultancy (Non-research)Forestry & Paper`
## `X18Consultancy (Non-research)Health`
## `X18Consultancy (Non-research)Manufacturing & R&D`
## `X18Consultancy (Non-research)Materials: Chemicals & Industrial Metals`
## `X18Consultancy (Non-research)Mining & Refining`
## `X18Consultancy (Non-research)Public Administration`
## `X18Consultancy (Non-research)Services`
## `X18Consultancy (Non-research)Technology: IT & Telephone Services`
## `X18Consultancy (Non-research)Transportation & Logistics`
## `X18Consultancy (Non-research)UNKNOWN`

```

```

## `X18Consultancy (Non-research)Veterinary`
## `X18Custom Education (MSPACE Included)Advertising, Marketing and PR`
## `X18Custom Education (MSPACE Included)Agriculture & Horticulture`
## `X18Custom Education (MSPACE Included)Aquaculture & Fisheries`
## `X18Custom Education (MSPACE Included)Construction & Construction Materials`
## `X18Custom Education (MSPACE Included)Defence`
## `X18Custom Education (MSPACE Included)Education`
## `X18Custom Education (MSPACE Included)Energy & Utilities`
## `X18Custom Education (MSPACE Included)Health`
## `X18Custom Education (MSPACE Included)Manufacturing & R&D`
## `X18Custom Education (MSPACE Included)Materials: Chemicals & Industrial Metals`
## `X18Custom Education (MSPACE Included)Mining & Refining`
## `X18Custom Education (MSPACE Included)Mining Equipment and Technology Services`
## `X18Custom Education (MSPACE Included)Public Administration`
## `X18Custom Education (MSPACE Included)Services`
## `X18Custom Education (MSPACE Included)Technology: IT & Telephone Services`
## `X18Custom Education (MSPACE Included)Transportation & Logistics`
## `X18Custom Education (MSPACE Included)Veterinary`
## `X18GrantsAgriculture & Horticulture`
## `X18GrantsAquaculture & Fisheries`
## `X18GrantsConstruction & Construction Materials`
## X18GrantsDefence
## X18GrantsEducation
## `X18GrantsEnergy & Utilities`
## X18GrantsHealth
## `X18GrantsManufacturing & R&D`
## `X18GrantsMining & Refining`
## `X18GrantsMining Equipment and Technology Services`
## `X18GrantsPublic Administration`
## X18GrantsServices
## `X18GrantsTechnology: IT & Telephone Services`
## `X18GrantsTransportation & Logistics`
## `X18InternshipAgriculture & Horticulture`
## X18InternshipDefence
## X18InternshipEducation
## X18InternshipHealth
## `X18InternshipManufacturing & R&D`
## `X18InternshipMaterials: Chemicals & Industrial Metals`
## `X18InternshipPublic Administration`
## X18InternshipServices
## `X18InternshipTechnology: IT & Telephone Services`
## `X18InternshipTransportation & Logistics`
## `X18PanelAgriculture & Horticulture`
## `X18PanelConstruction & Construction Materials`
## X18PanelDefence

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## `X18PanelEnergy & Utilities`
## X18PanelHealth
## `X18PanelPublic Administration`
## X18PanelServices
## `X18PanelTransportation & Logistics`
## `X18Parent GrantAgriculture & Horticulture`
## `X18Parent GrantHealth`
## `X18Parent GrantMining & Refining`
## `X18Parent GrantPublic Administration`
## `X18Parent GrantServices`
## X18PhilanthropicHealth
## `X18PhilanthropicManufacturing & R&D`
## X18PhilanthropicServices
## `X18PhilanthropicTechnology: IT & Telephone Services`
## `X18PhilanthropicTransportation & Logistics`
## `X18Research ContractAdvertising, Marketing and PR`
## `X18Research ContractAgriculture & Horticulture`
## `X18Research ContractAquaculture & Fisheries`
## `X18Research ContractConstruction & Construction Materials`
## `X18Research ContractDefence`
## `X18Research ContractEducation`
## `X18Research ContractEnergy & Utilities`
## `X18Research ContractForestry & Paper`
## `X18Research ContractHealth`
## `X18Research ContractManufacturing & R&D`
## `X18Research ContractMaterials: Chemicals & Industrial Metals`
## `X18Research ContractMining & Refining`
## `X18Research ContractMining Equipment and Technology Services`
## `X18Research ContractPublic Administration`
## `X18Research ContractServices`
## `X18Research ContractTechnology: IT & Telephone Services`
## `X18Research ContractTransportation`
## `X18Research ContractTransportation & Logistics`
## `X18Research ContractUNKNOWN`
## `X18Research ContractVeterinary`
## `X18SponsorshipAgriculture & Horticulture`
## X18SponsorshipDefence
## X18SponsorshipHealth
## `X18SponsorshipPublic Administration`
## X18SponsorshipServices
## `X18SponsorshipTechnology: IT & Telephone Services`
## `X18Technology TransferAgriculture & Horticulture`
## `X18Technology TransferConstruction & Construction Materials`
## `X18Technology TransferEducation`
## `X18Technology TransferEnergy & Utilities`

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## `X18Technology TransferHealth`
## `X18Technology TransferManufacturing & R&D`
## `X18Technology TransferMaterials: Chemicals & Industrial Metals`
## `X18Technology TransferMining & Refining`
## `X18Technology TransferMining Equipment and Technology Services`
## `X18Technology TransferPublic Administration`
## `X18Technology TransferServices`
## `X18Technology TransferTechnology: IT & Telephone Services`
## `X18Technology TransferTransportation & Logistics`
## `X18Technology TransferVeterinary`
## X19
## `factor(X20)1`
##
## (Intercept)
## `X2Competitive Bid`
## `X2Consultancy (Non-research)`
## `X2Custom Education (MSPACE Included)`
## X2Grants
## X2Internship
## X2Panel
## `X2Parent Grant`
## X2Philanthropic
## `X2Research Contract`
## X2Sponsorship
## `X2Technology Transfer`
## `X3RIC RE&D and BD&I`
## `X3RIC-BD&I`
## `X3RIC-RE&D`
## X40012e000002ZGfbAAG
## X40012e000002ZLg7AAG
## X40012e000002ZLgIAAW
## X40012e000002ZLgJAAW
## X40012e000002ZmnxAAC
## X40012e000002ZmnzAAC
## X40012e000002Zmo0AAC
## X40012e000002Zm0UAA0
## X40012e000002Zm0ZAA0
## X40012e000002ZNY0AA4
## X40012e000002Zt0MAAS
## X40012e000002Zt1iAAC
## X40012e000002Zt1RAAS
## X40012e000002Zt1zAAC
## X4NotGiven
## X50012e000002YlvyAAC
## X50012e000002Ym9QAAS

```

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## X50012e000002YmBqAAK
## X50012e000002YmMXAAO
## X50012e000002YmNRAAO
## X50012e000002YmVtAAK
## X50012e000002YneJAAS
## X50012e000002YnERAAO
## X50012e000002YnrYAAS
## X50012e000002YoY7AAK
## X50012e000002YoYUAAO
## X50012e000002Z30uAAK
## X50012e000002Z3p1AAC
## X50012e000002Z3pPAAS
## X50012e000002Z4IxAAK
## X50012e000002Z4JyAAK
## X50012e000002Z4oNAAS
## X50012e000002Z51dAAC
## X50012e000002Z51eAAC
## X50012e000002Z67WAAS
## X50012e000002Z6AWAAO
## X50012e000002ZLgBAAW
## X50012e000002ZLgOAAW
## X50012e000002ZlmBAAS
## X50012e000002Zt0bAAC
## X50012e000002Zt0cAAC
## X50012e000002Zt0gAAC
## X50012e000002Zt0hAAC
## X50012e000002Zt0jAAC
## X50012e000002Zt0mAAC
## X50012e000002Zt0nAAC
## X50012e000002Zt0rAAC
## X50012e000002Zt0XAAS
## X50012e000002Zt0YAAS
## X50012e000002Zt0ZAAS
## X50012e000002Zt10AAC
## X50012e000002Zt1FAAS
## X50012e000002Zt1MAAS
## X50012e000002Zt1PAAS
## X50012e000002Zt1VAAS
## X50012e000002Zt20AAC
## X50012e000002Zt21AAC
## X50012e000002Zt25AAC
## X50012e000002Zt28AAC
## X50012e000003jZxsAAM
## X5NotGiven
## `factor(X6)1`

```



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## `X7Agriculture & Horticulture`
## `X7Aquaculture & Fisheries`
## `X7Construction & Construction Materials`
## X7Defence
## X7Education
## `X7Energy & Utilities`
## `X7Forestry & Paper`
## X7Health
## `X7Manufacturing & R&D`
## `X7Materials: Chemicals & Industrial Metals`
## `X7Mining & Refining`
## `X7Mining Equipment and Technology Services`
## `X7Public Administration`
## X7Services
## `X7Technology: IT & Telephone Services`
## X7Transportation
## `X7Transportation & Logistics`
## X7UNKNOWN
## X7Veterinary
## X8Aerospace
## `X8Agriculture & Horticulture`
## `X8Aquaculture & Fisheries`
## `X8Automobiles, Heavy Vehicles & Industrial Machinery`
## `X8Biotechnology (non-Pharma)`
## `X8Business & Professional`
## X8Community
## `X8Construction & Construction Materials`
## `X8Consumer Goods`
## X8Defence
## X8Diagnostics
## X8Education
## `X8Energy & Utilities`
## `X8Engineering and Scientific`
## `X8Entertainment & Creative Industries`
## X8Environmental
## `X8Financial & Insurance`
## `X8Food & Beverage`
## `X8Forestry & Paper`
## `X8Hardware, Electronics and Electrical Equipment`
## `X8Health Care & Healthy Aging`
## `X8Materials: Chemicals & Industrial Metals`
## `X8Medical Devices`
## `X8Mining & Refining`
## `X8Mining Equipment and Technology Services`
## X8Pharmaceuticals

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## `X8Public Administration`
## `X8Research Tools/Consumables`
## `X8Retail, Travel, Hospitality & Leisure`
## `X8Technology: IT & Telephone Services`
## X8Transportation
## `X8Transportation & Logistics`
## X8UNKNOWN
## X8Veterinary
## `X9Government: Australia: Federal`
## `X9Government: Australia: Local & State`
## `X9Government: International`
## `X9Large Australian Corporate`
## `X9Multinational / Other Large Corporate`
## `X9Not for profit`
## `X9PFR0 (Publicly-Funded Research Organisation)`
## `X9RDC (Rural Research and Development Corporations)`
## `X9SME (small to medium enterprise)`
## X9University
## `factor(X10)1`
## `factor(X11)1`
## `factor(X12)1`
## X13
## X14
## X15
## `X16Co-LocationLarge Australian Corporate`
## `X16Co-LocationMultinational / Other Large Corporate`
## `X16Co-LocationNot for profit`
## `X16Co-LocationSME (small to medium enterprise)`
## `X16Competitive BidCRC (Co-operative Research Centre)`
## `X16Competitive BidGovernment: Australia: Federal`
## `X16Competitive BidGovernment: Australia: Local & State`
## `X16Competitive BidGovernment: International`
## `X16Competitive BidLarge Australian Corporate`
## `X16Competitive BidMultinational / Other Large Corporate`
## `X16Competitive BidNot for profit`
## `X16Competitive BidPFR0 (Publicly-Funded Research Organisation)`
## `X16Competitive BidRDC (Rural Research and Development Corporations)`
## `X16Consultancy (Non-research)Government: Australia: Federal`
## `X16Consultancy (Non-research)Government: Australia: Local & State`
## `X16Consultancy (Non-research)Government: International`
## `X16Consultancy (Non-research)Large Australian Corporate`
## `X16Consultancy (Non-research)Multinational / Other Large Corporate`
## `X16Consultancy (Non-research)Not for profit`
## `X16Consultancy (Non-research)PFR0 (Publicly-Funded Research Organisation)`
## `X16Consultancy (Non-research)SME (small to medium enterprise)`

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## `X16Consultancy (Non-research)University`
## `X16Custom Education (MSPACE Included)Government: Australia: Federal`
## `X16Custom Education (MSPACE Included)Government: Australia: Local & State`
## `X16Custom Education (MSPACE Included)Government: International`
## `X16Custom Education (MSPACE Included)Large Australian Corporate`
## `X16Custom Education (MSPACE Included)Multinational / Other Large Corporate`
## `X16Custom Education (MSPACE Included)Not for profit`
## `X16Custom Education (MSPACE Included)PFR0 (Publicly-Funded Research Organisation)`
## `X16Custom Education (MSPACE Included)RDC (Rural Research and Development Corporation`
## `X16Custom Education (MSPACE Included)SME (small to medium enterprise)`
## `X16Custom Education (MSPACE Included)University`
## `X16GrantsCRC (Co-operative Research Centre)`
## `X16GrantsGovernment: Australia: Federal`
## `X16GrantsGovernment: Australia: Local & State`
## `X16GrantsGovernment: International`
## `X16GrantsLarge Australian Corporate`
## `X16GrantsMultinational / Other Large Corporate`
## `X16GrantsNot for profit`
## `X16GrantsPFR0 (Publicly-Funded Research Organisation)`
## `X16GrantsRDC (Rural Research and Development Corporations)`
## `X16GrantsSME (small to medium enterprise)`
## X16GrantsUniversity
## `X16InternshipGovernment: Australia: Federal`
## `X16InternshipGovernment: Australia: Local & State`
## `X16InternshipLarge Australian Corporate`
## `X16InternshipMultinational / Other Large Corporate`
## `X16InternshipNot for profit`
## `X16InternshipSME (small to medium enterprise)`
## `X16PanelGovernment: Australia: Federal`
## `X16PanelGovernment: Australia: Local & State`
## `X16PanelGovernment: International`
## `X16PanelNot for profit`
## X16PanelUniversity
## `X16Parent GrantGovernment: Australia: Federal`
## `X16Parent GrantGovernment: Australia: Local & State`
## `X16Parent GrantNot for profit`
## `X16Parent GrantPFR0 (Publicly-Funded Research Organisation)`
## `X16Parent GrantRDC (Rural Research and Development Corporations)`
## `X16Parent GrantUniversity`
## `X16PhilanthropicGovernment: Australia: Local & State`
## `X16PhilanthropicLarge Australian Corporate`
## `X16PhilanthropicMultinational / Other Large Corporate`
## `X16PhilanthropicNot for profit`
## `X16Research ContractCRC (Co-operative Research Centre)`
## `X16Research ContractGovernment: Australia: Federal`

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## `X16Research ContractGovernment: Australia: Local & State`
## `X16Research ContractGovernment: International`
## `X16Research ContractLarge Australian Corporate`
## `X16Research ContractMultinational / Other Large Corporate`
## `X16Research ContractNot for profit`
## `X16Research ContractPFR0 (Publicly-Funded Research Organisation)`
## `X16Research ContractRDC (Rural Research and Development Corporations)`
## `X16Research ContractSME (small to medium enterprise)`
## `X16Research ContractUniversity`
## `X16SponsorshipGovernment: Australia: Federal`
## `X16SponsorshipGovernment: Australia: Local & State`
## `X16SponsorshipGovernment: International`
## `X16SponsorshipLarge Australian Corporate`
## `X16SponsorshipMultinational / Other Large Corporate`
## `X16SponsorshipNot for profit`
## `X16SponsorshipSME (small to medium enterprise)`
## X16SponsorshipUniversity
## `X16Technology TransferGovernment: Australia: Federal`
## `X16Technology TransferGovernment: Australia: Local & State`
## `X16Technology TransferGovernment: International`
## `X16Technology TransferLarge Australian Corporate`
## `X16Technology TransferMultinational / Other Large Corporate`
## `X16Technology TransferNot for profit`
## `X16Technology TransferPFR0 (Publicly-Funded Research Organisation)`
## `X16Technology TransferRDC (Rural Research and Development Corporations)`
## `X16Technology TransferSME (small to medium enterprise)`
## `X16Technology TransferUniversity`
## X170012e000002ZFZYAA4Panel
## `X170012e000002ZFZYAA4Research Contract`
## `X170012e000002ZGfbAAGCompetitive Bid`
## `X170012e000002ZGfbAAGConsultancy (Non-research)`
## `X170012e000002ZGfbAAGCustom Education (MSPACE Included)`
## X170012e000002ZGfbAAGGrants
## X170012e000002ZGfbAAGInternship
## X170012e000002ZGfbAAGPanel
## X170012e000002ZGfbAAGPhilanthropic
## `X170012e000002ZGfbAAGResearch Contract`
## X170012e000002ZGfbAAGSponsorship
## `X170012e000002ZGfbAAGTechnology Transfer`
## `X170012e000002ZLg7AAGCompetitive Bid`
## `X170012e000002ZLg7AAGConsultancy (Non-research)`
## `X170012e000002ZLg7AAGCustom Education (MSPACE Included)`
## X170012e000002ZLg7AAGGrants
## X170012e000002ZLg7AAGInternship
## X170012e000002ZLg7AAGPanel

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## X170012e000002ZLg7AAGPhilanthropic
## `X170012e000002ZLg7AAGResearch Contract`
## X170012e000002ZLg7AAGSponsorship
## `X170012e000002ZLg7AAGTechnology Transfer`
## `X170012e000002ZLgIAAWConsultancy (Non-research)`
## `X170012e000002ZLgIAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgIAAWGrants
## X170012e000002ZLgIAAWPanel
## X170012e000002ZLgIAAWPhilanthropic
## `X170012e000002ZLgIAAWResearch Contract`
## `X170012e000002ZLgIAAWTechnology Transfer`
## `X170012e000002ZLgJAAWCompetitive Bid`
## `X170012e000002ZLgJAAWConsultancy (Non-research)`
## `X170012e000002ZLgJAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgJAAWGrants
## X170012e000002ZLgJAAWInternship
## X170012e000002ZLgJAAWPanel
## X170012e000002ZLgJAAWPhilanthropic
## `X170012e000002ZLgJAAWResearch Contract`
## X170012e000002ZLgJAAWSponsorship
## `X170012e000002ZLgJAAWTechnology Transfer`
## `X170012e000002ZmnxAACConsultancy (Non-research)`
## `X170012e000002ZmnxAACCustom Education (MSPACE Included)`
## X170012e000002ZmnxAACGrants
## X170012e000002ZmnxAACInternship
## X170012e000002ZmnxAACPanel
## X170012e000002ZmnxAACPhilanthropic
## `X170012e000002ZmnxAACResearch Contract`
## X170012e000002ZmnxAACSponsorship
## `X170012e000002ZmnxAACTechnology Transfer`
## `X170012e000002ZmnzAACCompetitive Bid`
## `X170012e000002ZmnzAACConsultancy (Non-research)`
## `X170012e000002ZmnzAACCustom Education (MSPACE Included)`
## X170012e000002ZmnzAACGrants
## X170012e000002ZmnzAACInternship
## X170012e000002ZmnzAACPanel
## X170012e000002ZmnzAACPhilanthropic
## `X170012e000002ZmnzAACResearch Contract`
## X170012e000002ZmnzAACSponsorship
## `X170012e000002ZmnzAACTechnology Transfer`
## `X170012e000002ZmoOAACCompetitive Bid`
## `X170012e000002ZmoOAACConsultancy (Non-research)`
## `X170012e000002ZmoOAACCustom Education (MSPACE Included)`
## X170012e000002ZmoOAACGrants
## X170012e000002ZmoOAACPanel

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## X170012e000002Zmo0AACPhilanthropic
## `X170012e000002Zmo0AACResearch Contract`
## X170012e000002Zmo0AACSponsorship
## `X170012e000002Zmo0AACTechnology Transfer`
## `X170012e000002ZmOUAAOCustom Education (MSPACE Included)`
## X170012e000002ZmOUAAOInternship
## `X170012e000002ZmOUAAOResearch Contract`
## `X170012e000002ZmOZAAOConsultancy (Non-research)`
## `X170012e000002ZmOZAAOCustom Education (MSPACE Included)`
## X170012e000002ZmOZAAOGrants
## X170012e000002ZmOZAAOInternship
## X170012e000002ZmOZAAOPhilanthropic
## `X170012e000002ZmOZAAOResearch Contract`
## `X170012e000002ZNY0AA4Consultancy (Non-research)`
## `X170012e000002ZNY0AA4Custom Education (MSPACE Included)`
## X170012e000002ZNY0AA4Grants
## X170012e000002ZNY0AA4Internship
## X170012e000002ZNY0AA4Panel
## X170012e000002ZNY0AA4Philanthropic
## `X170012e000002ZNY0AA4Research Contract`
## X170012e000002ZNY0AA4Sponsorship
## `X170012e000002ZNY0AA4Technology Transfer`
## X170012e000002Zt0MAASGrants
## X170012e000002Zt1iAACGrants
## `X170012e000002Zt1RAASCompetitive Bid`
## `X170012e000002Zt1RAASConsultancy (Non-research)`
## `X170012e000002Zt1RAASCustom Education (MSPACE Included)`
## X170012e000002Zt1RAASGrants
## X170012e000002Zt1RAASPanel
## `X170012e000002Zt1RAASResearch Contract`
## X170012e000002Zt1zAACPhilanthropic
## `X17NotGivenCo-Location`
## `X17NotGivenCompetitive Bid`
## `X17NotGivenConsultancy (Non-research)`
## `X17NotGivenCustom Education (MSPACE Included)`
## X17NotGivenGrants
## X17NotGivenInternship
## X17NotGivenPanel
## `X17NotGivenParent Grant`
## X17NotGivenPhilanthropic
## `X17NotGivenResearch Contract`
## X17NotGivenSponsorship
## `X17NotGivenTechnology Transfer`
## `X18Co-LocationHealth`
## `X18Co-LocationManufacturing & R&D`

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## `X18Co-LocationMining Equipment and Technology Services`
## `X18Co-LocationPublic Administration`
## `X18Co-LocationServices`
## `X18Co-LocationTechnology: IT & Telephone Services`
## `X18Co-LocationTransportation & Logistics`
## `X18Competitive BidAgriculture & Horticulture`
## `X18Competitive BidConstruction & Construction Materials`
## `X18Competitive BidDefence`
## `X18Competitive BidEnergy & Utilities`
## `X18Competitive BidHealth`
## `X18Competitive BidManufacturing & R&D`
## `X18Competitive BidMining & Refining`
## `X18Competitive BidPublic Administration`
## `X18Competitive BidServices`
## `X18Competitive BidTechnology: IT & Telephone Services`
## `X18Competitive BidTransportation & Logistics`
## `X18Consultancy (Non-research)Advertising, Marketing and PR`
## `X18Consultancy (Non-research)Agriculture & Horticulture`
## `X18Consultancy (Non-research)Construction & Construction Materials`
## `X18Consultancy (Non-research)Defence`
## `X18Consultancy (Non-research)Education`
## `X18Consultancy (Non-research)Energy & Utilities`
## `X18Consultancy (Non-research)Forestry & Paper`
## `X18Consultancy (Non-research)Health`
## `X18Consultancy (Non-research)Manufacturing & R&D`
## `X18Consultancy (Non-research)Materials: Chemicals & Industrial Metals`
## `X18Consultancy (Non-research)Mining & Refining`
## `X18Consultancy (Non-research)Public Administration`
## `X18Consultancy (Non-research)Services`
## `X18Consultancy (Non-research)Technology: IT & Telephone Services`
## `X18Consultancy (Non-research)Transportation & Logistics`
## `X18Consultancy (Non-research)UNKNOWN`
## `X18Consultancy (Non-research)Veterinary`
## `X18Custom Education (MSPACE Included)Advertising, Marketing and PR`
## `X18Custom Education (MSPACE Included)Agriculture & Horticulture`
## `X18Custom Education (MSPACE Included)Aquaculture & Fisheries`
## `X18Custom Education (MSPACE Included)Construction & Construction Materials`
## `X18Custom Education (MSPACE Included)Defence`
## `X18Custom Education (MSPACE Included)Education`
## `X18Custom Education (MSPACE Included)Energy & Utilities`
## `X18Custom Education (MSPACE Included)Health`
## `X18Custom Education (MSPACE Included)Manufacturing & R&D`
## `X18Custom Education (MSPACE Included)Materials: Chemicals & Industrial Metals`
## `X18Custom Education (MSPACE Included)Mining & Refining`
## `X18Custom Education (MSPACE Included)Mining Equipment and Technology Services`

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## `X18Custom Education (MSPACE Included)Public Administration`
## `X18Custom Education (MSPACE Included)Services`
## `X18Custom Education (MSPACE Included)Technology: IT & Telephone Services`
## `X18Custom Education (MSPACE Included)Transportation & Logistics`
## `X18Custom Education (MSPACE Included)Veterinary`
## `X18GrantsAgriculture & Horticulture`
## `X18GrantsAquaculture & Fisheries`
## `X18GrantsConstruction & Construction Materials`
## X18GrantsDefence
## X18GrantsEducation
## `X18GrantsEnergy & Utilities`
## X18GrantsHealth
## `X18GrantsManufacturing & R&D`
## `X18GrantsMining & Refining`
## `X18GrantsMining Equipment and Technology Services`
## `X18GrantsPublic Administration`
## X18GrantsServices
## `X18GrantsTechnology: IT & Telephone Services`
## `X18GrantsTransportation & Logistics`
## `X18InternshipAgriculture & Horticulture`
## X18InternshipDefence
## X18InternshipEducation
## X18InternshipHealth
## `X18InternshipManufacturing & R&D`
## `X18InternshipMaterials: Chemicals & Industrial Metals`
## `X18InternshipPublic Administration`
## X18InternshipServices
## `X18InternshipTechnology: IT & Telephone Services`
## `X18InternshipTransportation & Logistics`
## `X18PanelAgriculture & Horticulture`
## `X18PanelConstruction & Construction Materials`
## X18PanelDefence
## `X18PanelEnergy & Utilities`
## X18PanelHealth
## `X18PanelPublic Administration`
## X18PanelServices
## `X18PanelTransportation & Logistics`
## `X18Parent GrantAgriculture & Horticulture`
## `X18Parent GrantHealth`
## `X18Parent GrantMining & Refining`
## `X18Parent GrantPublic Administration`
## `X18Parent GrantServices`
## X18PhilanthropicHealth
## `X18PhilanthropicManufacturing & R&D`
## X18PhilanthropicServices

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## `X18PhilanthropicTechnology: IT & Telephone Services`
## `X18PhilanthropicTransportation & Logistics`
## `X18Research ContractAdvertising, Marketing and PR`
## `X18Research ContractAgriculture & Horticulture`
## `X18Research ContractAquaculture & Fisheries`
## `X18Research ContractConstruction & Construction Materials`
## `X18Research ContractDefence`
## `X18Research ContractEducation`
## `X18Research ContractEnergy & Utilities`
## `X18Research ContractForestry & Paper`
## `X18Research ContractHealth`
## `X18Research ContractManufacturing & R&D`
## `X18Research ContractMaterials: Chemicals & Industrial Metals`
## `X18Research ContractMining & Refining`
## `X18Research ContractMining Equipment and Technology Services`
## `X18Research ContractPublic Administration`
## `X18Research ContractServices`
## `X18Research ContractTechnology: IT & Telephone Services`
## `X18Research ContractTransportation`
## `X18Research ContractTransportation & Logistics`
## `X18Research ContractUNKNOWN`
## `X18Research ContractVeterinary`
## `X18SponsorshipAgriculture & Horticulture`
## X18SponsorshipDefence
## X18SponsorshipHealth
## `X18SponsorshipPublic Administration`
## X18SponsorshipServices
## `X18SponsorshipTechnology: IT & Telephone Services`
## `X18Technology TransferAgriculture & Horticulture`
## `X18Technology TransferConstruction & Construction Materials`
## `X18Technology TransferEducation`
## `X18Technology TransferEnergy & Utilities`
## `X18Technology TransferHealth`
## `X18Technology TransferManufacturing & R&D`
## `X18Technology TransferMaterials: Chemicals & Industrial Metals`
## `X18Technology TransferMining & Refining`
## `X18Technology TransferMining Equipment and Technology Services`
## `X18Technology TransferPublic Administration`
## `X18Technology TransferServices`
## `X18Technology TransferTechnology: IT & Telephone Services`
## `X18Technology TransferTransportation & Logistics`
## `X18Technology TransferVeterinary`
## X19
## `factor(X20)1`
##

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## (Intercept)
## `X2Competitive Bid`
## `X2Consultancy (Non-research)`
## `X2Custom Education (MSPACE Included)`
## X2Grants
## X2Internship
## X2Panel
## `X2Parent Grant`
## X2Philanthropic
## `X2Research Contract`
## X2Sponsorship
## `X2Technology Transfer`
## `X3RIC RE&D and BD&I`
## `X3RIC-BD&I`
## `X3RIC-RE&D`
## X40012e000002ZGfbAAG
## X40012e000002ZLg7AAG
## X40012e000002ZLgIAAW
## X40012e000002ZLgJAAW
## X40012e000002ZmnxAAC
## X40012e000002ZmnzAAC
## X40012e000002Zmo0AAC
## X40012e000002ZmOUAA0
## X40012e000002ZmOZAA0
## X40012e000002ZNY0AA4
## X40012e000002Zt0MAAS
## X40012e000002Zt1iAAC
## X40012e000002Zt1RAAS
## X40012e000002Zt1zAAC
## X4NotGiven
## X50012e000002YlvyAAC
## X50012e000002Ym9QAAS
## X50012e000002YmBqAAK
## X50012e000002YmMXAA0
## X50012e000002YmNRAA0
## X50012e000002YmVtAAK
## X50012e000002YneJAAS
## X50012e000002YnERAA0
## X50012e000002YnrYAAS
## X50012e000002YoY7AAK
## X50012e000002YoYUAA0
## X50012e000002Z30uAAK
## X50012e000002Z3p1AAC
## X50012e000002Z3pPAAS
## X50012e000002Z4IxAAK

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## X50012e000002Z4JyAAK
## X50012e000002Z4oNAAS
## X50012e000002Z51dAAC
## X50012e000002Z51eAAC
## X50012e000002Z67WAAS
## X50012e000002Z6AWAAO
## X50012e000002ZLgBAAW
## X50012e000002ZLgOAAW
## X50012e000002ZlmBAAS
## X50012e000002Zt0bAAC
## X50012e000002Zt0cAAC
## X50012e000002Zt0gAAC
## X50012e000002Zt0hAAC
## X50012e000002Zt0jAAC
## X50012e000002Zt0mAAC
## X50012e000002Zt0nAAC
## X50012e000002Zt0rAAC
## X50012e000002Zt0XAAS
## X50012e000002Zt0YAAS
## X50012e000002Zt0ZAAS
## X50012e000002Zt10AAC
## X50012e000002Zt1FAAS
## X50012e000002Zt1MAAS
## X50012e000002Zt1PAAS
## X50012e000002Zt1VAAS
## X50012e000002Zt20AAC
## X50012e000002Zt21AAC
## X50012e000002Zt25AAC
## X50012e000002Zt28AAC
## X50012e000003jZXsAAM
## X5NotGiven
## `factor(X6)1`
## `X7Agriculture & Horticulture`
## `X7Aquaculture & Fisheries`
## `X7Construction & Construction Materials`
## X7Defence
## X7Education
## `X7Energy & Utilities`
## `X7Forestry & Paper`
## X7Health
## `X7Manufacturing & R&D`
## `X7Materials: Chemicals & Industrial Metals`
## `X7Mining & Refining`
## `X7Mining Equipment and Technology Services`
## `X7Public Administration`

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```

## X7Services
## `X7Technology: IT & Telephone Services`
## X7Transportation
## `X7Transportation & Logistics`
## X7UNKNOWN
## X7Veterinary
## X8Aerospace
## `X8Agriculture & Horticulture`
## `X8Aquaculture & Fisheries`
## `X8Automobiles, Heavy Vehicles & Industrial Machinery`
## `X8Biotechnology (non-Pharma)`
## `X8Business & Professional`
## X8Community
## `X8Construction & Construction Materials`
## `X8Consumer Goods`
## X8Defence
## X8Diagnostics
## X8Education
## `X8Energy & Utilities`
## `X8Engineering and Scientific`
## `X8Entertainment & Creative Industries`
## X8Environmental
## `X8Financial & Insurance`
## `X8Food & Beverage`
## `X8Forestry & Paper`
## `X8Hardware, Electronics and Electrical Equipment`
## `X8Health Care & Healthy Aging`
## `X8Materials: Chemicals & Industrial Metals`
## `X8Medical Devices`
## `X8Mining & Refining`
## `X8Mining Equipment and Technology Services`
## X8Pharmaceuticals
## `X8Public Administration`
## `X8Research Tools/Consumables`
## `X8Retail, Travel, Hospitality & Leisure`
## `X8Technology: IT & Telephone Services`
## X8Transportation
## `X8Transportation & Logistics`
## X8UNKNOWN
## X8Veterinary
## `X9Government: Australia: Federal`
## `X9Government: Australia: Local & State`
## `X9Government: International`
## `X9Large Australian Corporate`
## `X9Multinational / Other Large Corporate`

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## `X9Not for profit`
## `X9PFR0 (Publicly-Funded Research Organisation)`
## `X9RDC (Rural Research and Development Corporations)`
## `X9SME (small to medium enterprise)`
## X9University
## `factor(X10)1`
## `factor(X11)1`
## `factor(X12)1`
## X13
## X14
## X15
## `X16Co-LocationLarge Australian Corporate`
## `X16Co-LocationMultinational / Other Large Corporate`
## `X16Co-LocationNot for profit`
## `X16Co-LocationSME (small to medium enterprise)`
## `X16Competitive BidCRC (Co-operative Research Centre)`
## `X16Competitive BidGovernment: Australia: Federal`
## `X16Competitive BidGovernment: Australia: Local & State`
## `X16Competitive BidGovernment: International`
## `X16Competitive BidLarge Australian Corporate`
## `X16Competitive BidMultinational / Other Large Corporate`
## `X16Competitive BidNot for profit`
## `X16Competitive BidPFR0 (Publicly-Funded Research Organisation)`
## `X16Competitive BidRDC (Rural Research and Development Corporations)`
## `X16Consultancy (Non-research)Government: Australia: Federal`
## `X16Consultancy (Non-research)Government: Australia: Local & State`
## `X16Consultancy (Non-research)Government: International`
## `X16Consultancy (Non-research)Large Australian Corporate`
## `X16Consultancy (Non-research)Multinational / Other Large Corporate`
## `X16Consultancy (Non-research)Not for profit`
## `X16Consultancy (Non-research)PFR0 (Publicly-Funded Research Organisation)`
## `X16Consultancy (Non-research)SME (small to medium enterprise)`
## `X16Consultancy (Non-research)University`
## `X16Custom Education (MSPACE Included)Government: Australia: Federal`
## `X16Custom Education (MSPACE Included)Government: Australia: Local & State`
## `X16Custom Education (MSPACE Included)Government: International`
## `X16Custom Education (MSPACE Included)Large Australian Corporate`
## `X16Custom Education (MSPACE Included)Multinational / Other Large Corporate`
## `X16Custom Education (MSPACE Included)Not for profit`
## `X16Custom Education (MSPACE Included)PFR0 (Publicly-Funded Research Organisation)`
## `X16Custom Education (MSPACE Included)RDC (Rural Research and Development Corporation`
## `X16Custom Education (MSPACE Included)SME (small to medium enterprise)`
## `X16Custom Education (MSPACE Included)University`
## `X16GrantsCRC (Co-operative Research Centre)`
## `X16GrantsGovernment: Australia: Federal`

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## `X16GrantsGovernment: Australia: Local & State`
## `X16GrantsGovernment: International`
## `X16GrantsLarge Australian Corporate`
## `X16GrantsMultinational / Other Large Corporate`
## `X16GrantsNot for profit`
## `X16GrantsPFR0 (Publicly-Funded Research Organisation)`
## `X16GrantsRDC (Rural Research and Development Corporations)`
## `X16GrantsSME (small to medium enterprise)`
## X16GrantsUniversity
## `X16InternshipGovernment: Australia: Federal`
## `X16InternshipGovernment: Australia: Local & State`
## `X16InternshipLarge Australian Corporate`
## `X16InternshipMultinational / Other Large Corporate`
## `X16InternshipNot for profit`
## `X16InternshipSME (small to medium enterprise)`
## `X16PanelGovernment: Australia: Federal`
## `X16PanelGovernment: Australia: Local & State`
## `X16PanelGovernment: International`
## `X16PanelNot for profit`
## X16PanelUniversity
## `X16Parent GrantGovernment: Australia: Federal`
## `X16Parent GrantGovernment: Australia: Local & State`
## `X16Parent GrantNot for profit`
## `X16Parent GrantPFR0 (Publicly-Funded Research Organisation)`
## `X16Parent GrantRDC (Rural Research and Development Corporations)`
## `X16Parent GrantUniversity`
## `X16PhilanthropicGovernment: Australia: Local & State`
## `X16PhilanthropicLarge Australian Corporate`
## `X16PhilanthropicMultinational / Other Large Corporate`
## `X16PhilanthropicNot for profit`
## `X16Research ContractCRC (Co-operative Research Centre)`
## `X16Research ContractGovernment: Australia: Federal`
## `X16Research ContractGovernment: Australia: Local & State`
## `X16Research ContractGovernment: International`
## `X16Research ContractLarge Australian Corporate`
## `X16Research ContractMultinational / Other Large Corporate`
## `X16Research ContractNot for profit`
## `X16Research ContractPFR0 (Publicly-Funded Research Organisation)`
## `X16Research ContractRDC (Rural Research and Development Corporations)`
## `X16Research ContractSME (small to medium enterprise)`
## `X16Research ContractUniversity`
## `X16SponsorshipGovernment: Australia: Federal`
## `X16SponsorshipGovernment: Australia: Local & State`
## `X16SponsorshipGovernment: International`
## `X16SponsorshipLarge Australian Corporate`

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## `X16SponsorshipMultinational / Other Large Corporate`
## `X16SponsorshipNot for profit`
## `X16SponsorshipSME (small to medium enterprise)`
## X16SponsorshipUniversity
## `X16Technology TransferGovernment: Australia: Federal`
## `X16Technology TransferGovernment: Australia: Local & State`
## `X16Technology TransferGovernment: International`
## `X16Technology TransferLarge Australian Corporate`
## `X16Technology TransferMultinational / Other Large Corporate`
## `X16Technology TransferNot for profit`
## `X16Technology TransferPFR0 (Publicly-Funded Research Organisation)`
## `X16Technology TransferRDC (Rural Research and Development Corporations)`
## `X16Technology TransferSME (small to medium enterprise)`
## `X16Technology TransferUniversity`
## X170012e000002ZFZYAA4Panel
## `X170012e000002ZFZYAA4Research Contract`
## `X170012e000002ZGfbAAGCompetitive Bid`
## `X170012e000002ZGfbAAGConsultancy (Non-research)`
## `X170012e000002ZGfbAAGCustom Education (MSPACE Included)`
## X170012e000002ZGfbAAGGrants
## X170012e000002ZGfbAAGInternship
## X170012e000002ZGfbAAGPanel
## X170012e000002ZGfbAAGPhilanthropic
## `X170012e000002ZGfbAAGResearch Contract`
## X170012e000002ZGfbAAGSponsorship
## `X170012e000002ZGfbAAGTechnology Transfer`
## `X170012e000002ZLg7AAGCompetitive Bid`
## `X170012e000002ZLg7AAGConsultancy (Non-research)`
## `X170012e000002ZLg7AAGCustom Education (MSPACE Included)`
## X170012e000002ZLg7AAGGrants
## X170012e000002ZLg7AAGInternship
## X170012e000002ZLg7AAGPanel
## X170012e000002ZLg7AAGPhilanthropic
## `X170012e000002ZLg7AAGResearch Contract`
## X170012e000002ZLg7AAGSponsorship
## `X170012e000002ZLg7AAGTechnology Transfer`
## `X170012e000002ZLgIAAWConsultancy (Non-research)`
## `X170012e000002ZLgIAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgIAAWGrants
## X170012e000002ZLgIAAWPanel
## X170012e000002ZLgIAAWPhilanthropic
## `X170012e000002ZLgIAAWResearch Contract`
## `X170012e000002ZLgIAAWTechnology Transfer`
## `X170012e000002ZLgJAAWCompetitive Bid`
## `X170012e000002ZLgJAAWConsultancy (Non-research)`

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```

## `X170012e000002ZLgJAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgJAAWGrants
## X170012e000002ZLgJAAWInternship
## X170012e000002ZLgJAAWPanel
## X170012e000002ZLgJAAWPhilanthropic
## `X170012e000002ZLgJAAWResearch Contract`
## X170012e000002ZLgJAAWSponsorship
## `X170012e000002ZLgJAAWTechnology Transfer`
## `X170012e000002ZmnxAACConsultancy (Non-research)`
## `X170012e000002ZmnxAACCustom Education (MSPACE Included)`
## X170012e000002ZmnxAACGrants
## X170012e000002ZmnxAACInternship
## X170012e000002ZmnxAACPanel
## X170012e000002ZmnxAACPhilanthropic
## `X170012e000002ZmnxAACResearch Contract`
## X170012e000002ZmnxAACSponsorship
## `X170012e000002ZmnxAACTechnology Transfer`
## `X170012e000002ZmnzAACCompetitive Bid`
## `X170012e000002ZmnzAACConsultancy (Non-research)`
## `X170012e000002ZmnzAACCustom Education (MSPACE Included)`
## X170012e000002ZmnzAACGrants
## X170012e000002ZmnzAACInternship
## X170012e000002ZmnzAACPanel
## X170012e000002ZmnzAACPhilanthropic
## `X170012e000002ZmnzAACResearch Contract`
## X170012e000002ZmnzAACSponsorship
## `X170012e000002ZmnzAACTechnology Transfer`
## `X170012e000002Zmo0AACCompetitive Bid`
## `X170012e000002Zmo0AACConsultancy (Non-research)`
## `X170012e000002Zmo0AACCustom Education (MSPACE Included)`
## X170012e000002Zmo0AACGrants
## X170012e000002Zmo0AACPanel
## X170012e000002Zmo0AACPhilanthropic
## `X170012e000002Zmo0AACResearch Contract`
## X170012e000002Zmo0AACSponsorship
## `X170012e000002Zmo0AACTechnology Transfer`
## `X170012e000002ZmOUAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOUAA0Internship
## `X170012e000002ZmOUAA0Research Contract`
## `X170012e000002ZmOZAA0Consultancy (Non-research)`
## `X170012e000002ZmOZAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOZAA0Grants
## X170012e000002ZmOZAA0Internship
## X170012e000002ZmOZAA0Philanthropic
## `X170012e000002ZmOZAA0Research Contract`

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## `X170012e000002ZNY0AA4Consultancy (Non-research)`
## `X170012e000002ZNY0AA4Custom Education (MSPACE Included)`
## X170012e000002ZNY0AA4Grants
## X170012e000002ZNY0AA4Internship
## X170012e000002ZNY0AA4Panel
## X170012e000002ZNY0AA4Philanthropic
## `X170012e000002ZNY0AA4Research Contract`
## X170012e000002ZNY0AA4Sponsorship
## `X170012e000002ZNY0AA4Technology Transfer`
## X170012e000002Zt0MAASGrants
## X170012e000002Zt1iAACGrants
## `X170012e000002Zt1RAASCompetitive Bid`
## `X170012e000002Zt1RAASConsultancy (Non-research)`
## `X170012e000002Zt1RAASCustom Education (MSPACE Included)`
## X170012e000002Zt1RAASGrants
## X170012e000002Zt1RAASPanel
## `X170012e000002Zt1RAASResearch Contract`
## X170012e000002Zt1zAACPhilanthropic
## `X17NotGivenCo-Location`
## `X17NotGivenCompetitive Bid`
## `X17NotGivenConsultancy (Non-research)`
## `X17NotGivenCustom Education (MSPACE Included)`
## X17NotGivenGrants
## X17NotGivenInternship
## X17NotGivenPanel
## `X17NotGivenParent Grant`
## X17NotGivenPhilanthropic
## `X17NotGivenResearch Contract`
## X17NotGivenSponsorship
## `X17NotGivenTechnology Transfer`
## `X18Co-LocationHealth`
## `X18Co-LocationManufacturing & R&D`
## `X18Co-LocationMining Equipment and Technology Services`
## `X18Co-LocationPublic Administration`
## `X18Co-LocationServices`
## `X18Co-LocationTechnology: IT & Telephone Services`
## `X18Co-LocationTransportation & Logistics`
## `X18Competitive BidAgriculture & Horticulture`
## `X18Competitive BidConstruction & Construction Materials`
## `X18Competitive BidDefence`
## `X18Competitive BidEnergy & Utilities`
## `X18Competitive BidHealth`
## `X18Competitive BidManufacturing & R&D`
## `X18Competitive BidMining & Refining`
## `X18Competitive BidPublic Administration`

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```

## `X18Competitive BidServices`
## `X18Competitive BidTechnology: IT & Telephone Services`
## `X18Competitive BidTransportation & Logistics`
## `X18Consultancy (Non-research)Advertising, Marketing and PR`
## `X18Consultancy (Non-research)Agriculture & Horticulture`
## `X18Consultancy (Non-research)Construction & Construction Materials`
## `X18Consultancy (Non-research)Defence`
## `X18Consultancy (Non-research)Education`
## `X18Consultancy (Non-research)Energy & Utilities`
## `X18Consultancy (Non-research)Forestry & Paper`
## `X18Consultancy (Non-research)Health`
## `X18Consultancy (Non-research)Manufacturing & R&D`
## `X18Consultancy (Non-research)Materials: Chemicals & Industrial Metals`
## `X18Consultancy (Non-research)Mining & Refining`
## `X18Consultancy (Non-research)Public Administration`
## `X18Consultancy (Non-research)Services`
## `X18Consultancy (Non-research)Technology: IT & Telephone Services`
## `X18Consultancy (Non-research)Transportation & Logistics`
## `X18Consultancy (Non-research)UNKNOWN`
## `X18Consultancy (Non-research)Veterinary`
## `X18Custom Education (MSPACE Included)Advertising, Marketing and PR`
## `X18Custom Education (MSPACE Included)Agriculture & Horticulture`
## `X18Custom Education (MSPACE Included)Aquaculture & Fisheries`
## `X18Custom Education (MSPACE Included)Construction & Construction Materials`
## `X18Custom Education (MSPACE Included)Defence`
## `X18Custom Education (MSPACE Included)Education`
## `X18Custom Education (MSPACE Included)Energy & Utilities`
## `X18Custom Education (MSPACE Included)Health`
## `X18Custom Education (MSPACE Included)Manufacturing & R&D`
## `X18Custom Education (MSPACE Included)Materials: Chemicals & Industrial Metals`
## `X18Custom Education (MSPACE Included)Mining & Refining`
## `X18Custom Education (MSPACE Included)Mining Equipment and Technology Services`
## `X18Custom Education (MSPACE Included)Public Administration`
## `X18Custom Education (MSPACE Included)Services`
## `X18Custom Education (MSPACE Included)Technology: IT & Telephone Services`
## `X18Custom Education (MSPACE Included)Transportation & Logistics`
## `X18Custom Education (MSPACE Included)Veterinary`
## `X18GrantsAgriculture & Horticulture`
## `X18GrantsAquaculture & Fisheries`
## `X18GrantsConstruction & Construction Materials`
## X18GrantsDefence
## X18GrantsEducation
## `X18GrantsEnergy & Utilities`
## X18GrantsHealth
## `X18GrantsManufacturing & R&D`

```

```

## `X18GrantsMining & Refining`
## `X18GrantsMining Equipment and Technology Services`
## `X18GrantsPublic Administration`
## X18GrantsServices
## `X18GrantsTechnology: IT & Telephone Services`
## `X18GrantsTransportation & Logistics`
## `X18InternshipAgriculture & Horticulture`
## X18InternshipDefence
## X18InternshipEducation
## X18InternshipHealth
## `X18InternshipManufacturing & R&D`
## `X18InternshipMaterials: Chemicals & Industrial Metals`
## `X18InternshipPublic Administration`
## X18InternshipServices
## `X18InternshipTechnology: IT & Telephone Services`
## `X18InternshipTransportation & Logistics`
## `X18PanelAgriculture & Horticulture`
## `X18PanelConstruction & Construction Materials`
## X18PanelDefence
## `X18PanelEnergy & Utilities`
## X18PanelHealth
## `X18PanelPublic Administration`
## X18PanelServices
## `X18PanelTransportation & Logistics`
## `X18Parent GrantAgriculture & Horticulture`
## `X18Parent GrantHealth`
## `X18Parent GrantMining & Refining`
## `X18Parent GrantPublic Administration`
## `X18Parent GrantServices`
## X18PhilanthropicHealth
## `X18PhilanthropicManufacturing & R&D`
## X18PhilanthropicServices
## `X18PhilanthropicTechnology: IT & Telephone Services`
## `X18PhilanthropicTransportation & Logistics`
## `X18Research ContractAdvertising, Marketing and PR`
## `X18Research ContractAgriculture & Horticulture`
## `X18Research ContractAquaculture & Fisheries`
## `X18Research ContractConstruction & Construction Materials`
## `X18Research ContractDefence`
## `X18Research ContractEducation`
## `X18Research ContractEnergy & Utilities`
## `X18Research ContractForestry & Paper`
## `X18Research ContractHealth`
## `X18Research ContractManufacturing & R&D`
## `X18Research ContractMaterials: Chemicals & Industrial Metals`

```

```

## `X18Research ContractMining & Refining`
## `X18Research ContractMining Equipment and Technology Services`
## `X18Research ContractPublic Administration`
## `X18Research ContractServices`
## `X18Research ContractTechnology: IT & Telephone Services`
## `X18Research ContractTransportation`
## `X18Research ContractTransportation & Logistics`
## `X18Research ContractUNKNOWN`
## `X18Research ContractVeterinary`
## `X18SponsorshipAgriculture & Horticulture`
## X18SponsorshipDefence
## X18SponsorshipHealth
## `X18SponsorshipPublic Administration`
## X18SponsorshipServices
## `X18SponsorshipTechnology: IT & Telephone Services`
## `X18Technology TransferAgriculture & Horticulture`
## `X18Technology TransferConstruction & Construction Materials`
## `X18Technology TransferEducation`
## `X18Technology TransferEnergy & Utilities`
## `X18Technology TransferHealth`
## `X18Technology TransferManufacturing & R&D`
## `X18Technology TransferMaterials: Chemicals & Industrial Metals`
## `X18Technology TransferMining & Refining`
## `X18Technology TransferMining Equipment and Technology Services`
## `X18Technology TransferPublic Administration`
## `X18Technology TransferServices`
## `X18Technology TransferTechnology: IT & Telephone Services`
## `X18Technology TransferTransportation & Logistics`
## `X18Technology TransferVeterinary`
## X19
## `factor(X20)1`
##
## (Intercept)
## `X2Competitive Bid`
## `X2Consultancy (Non-research)`
## `X2Custom Education (MSPACE Included)`
## X2Grants
## X2Internship
## X2Panel
## `X2Parent Grant`
## X2Philanthropic
## `X2Research Contract`
## X2Sponsorship
## `X2Technology Transfer`
## `X3RIC RE&D and BD&I`

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`X3RIC-BD&I`
`X3RIC-RE&D`
X40012e000002ZGfbAAG
X40012e000002ZLg7AAG
X40012e000002ZLgIAAW
X40012e000002ZLgJAAW
X40012e000002ZmnxAAC
X40012e000002ZmnzAAC
X40012e000002Zmo0AAC
X40012e000002ZmOUAAO
X40012e000002ZmOZAAO
X40012e000002ZNY0AA4
X40012e000002Zt0MAAS
X40012e000002Zt1iAAC
X40012e000002Zt1RAAS
X40012e000002Zt1zAAC
X4NotGiven
X50012e000002YlvyAAC
X50012e000002Ym9QAAS
X50012e000002YmBqAAK
X50012e000002YmMXAAO
X50012e000002YmNRAAO
X50012e000002YmVtAAK
X50012e000002YneJAAS
X50012e000002YnERAAO
X50012e000002YnrYAAS
X50012e000002YoY7AAK
X50012e000002YoYUAAO
X50012e000002Z30uAAK
X50012e000002Z3p1AAC
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X50012e000002Z4IxAAK
X50012e000002Z4JyAAK
X50012e000002Z4oNAAS
X50012e000002Z51dAAC
X50012e000002Z51eAAC
X50012e000002Z67WAAS
X50012e000002Z6AWAAO
X50012e000002ZLgBAAW
X50012e000002ZLgOAAW
X50012e000002ZlmBAAS
X50012e000002Zt0bAAC
X50012e000002Zt0cAAC
X50012e000002Zt0gAAC
X50012e000002Zt0hAAC

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## X50012e000002Zt0jAAC
## X50012e000002Zt0mAAC
## X50012e000002Zt0nAAC
## X50012e000002Zt0rAAC
## X50012e000002Zt0XAAS
## X50012e000002Zt0YAAS
## X50012e000002Zt0ZAAS
## X50012e000002Zt10AAC
## X50012e000002Zt1FAAS
## X50012e000002Zt1MAAS
## X50012e000002Zt1PAAS
## X50012e000002Zt1VAAS
## X50012e000002Zt20AAC
## X50012e000002Zt21AAC
## X50012e000002Zt25AAC
## X50012e000002Zt28AAC
## X50012e000003jZXsAAM
## X5NotGiven
## `factor(X6)1`
## `X7Agriculture & Horticulture`
## `X7Aquaculture & Fisheries`
## `X7Construction & Construction Materials`
## X7Defence
## X7Education
## `X7Energy & Utilities`
## `X7Forestry & Paper`
## X7Health
## `X7Manufacturing & R&D`
## `X7Materials: Chemicals & Industrial Metals`
## `X7Mining & Refining`
## `X7Mining Equipment and Technology Services`
## `X7Public Administration`
## X7Services
## `X7Technology: IT & Telephone Services`
## X7Transportation
## `X7Transportation & Logistics`
## X7UNKNOWN
## X7Veterinary
## X8Aerospace
## `X8Agriculture & Horticulture`
## `X8Aquaculture & Fisheries`
## `X8Automobiles, Heavy Vehicles & Industrial Machinery`
## `X8Biotechnology (non-Pharma)`
## `X8Business & Professional`
## X8Community

```

```

## `X8Construction & Construction Materials`
## `X8Consumer Goods`
## X8Defence
## X8Diagnostics
## X8Education
## `X8Energy & Utilities`
## `X8Engineering and Scientific`
## `X8Entertainment & Creative Industries`
## X8Environmental
## `X8Financial & Insurance`
## `X8Food & Beverage`
## `X8Forestry & Paper`
## `X8Hardware, Electronics and Electrical Equipment`
## `X8Health Care & Healthy Aging`
## `X8Materials: Chemicals & Industrial Metals`
## `X8Medical Devices`
## `X8Mining & Refining`
## `X8Mining Equipment and Technology Services`
## X8Pharmaceuticals
## `X8Public Administration`
## `X8Research Tools/Consumables`
## `X8Retail, Travel, Hospitality & Leisure`
## `X8Technology: IT & Telephone Services`
## X8Transportation
## `X8Transportation & Logistics`
## X8UNKNOWN
## X8Veterinary
## `X9Government: Australia: Federal`
## `X9Government: Australia: Local & State`
## `X9Government: International`
## `X9Large Australian Corporate`
## `X9Multinational / Other Large Corporate`
## `X9Not for profit`
## `X9PFR0 (Publicly-Funded Research Organisation)`
## `X9RDC (Rural Research and Development Corporations)`
## `X9SME (small to medium enterprise)`
## X9University
## `factor(X10)1`
## `factor(X11)1`
## `factor(X12)1`
## X13
## X14
## X15
## `X16Co-LocationLarge Australian Corporate`
## `X16Co-LocationMultinational / Other Large Corporate`

```

```

## `X16Co-LocationNot for profit`
## `X16Co-LocationSME (small to medium enterprise)`
## `X16Competitive BidCRC (Co-operative Research Centre)`
## `X16Competitive BidGovernment: Australia: Federal`
## `X16Competitive BidGovernment: Australia: Local & State`
## `X16Competitive BidGovernment: International`
## `X16Competitive BidLarge Australian Corporate`
## `X16Competitive BidMultinational / Other Large Corporate`
## `X16Competitive BidNot for profit`
## `X16Competitive BidPFR0 (Publicly-Funded Research Organisation)`
## `X16Competitive BidRDC (Rural Research and Development Corporations)`
## `X16Consultancy (Non-research)Government: Australia: Federal`
## `X16Consultancy (Non-research)Government: Australia: Local & State`
## `X16Consultancy (Non-research)Government: International`
## `X16Consultancy (Non-research)Large Australian Corporate`
## `X16Consultancy (Non-research)Multinational / Other Large Corporate`
## `X16Consultancy (Non-research)Not for profit`
## `X16Consultancy (Non-research)PFR0 (Publicly-Funded Research Organisation)`
## `X16Consultancy (Non-research)SME (small to medium enterprise)`
## `X16Consultancy (Non-research)University`
## `X16Custom Education (MSPACE Included)Government: Australia: Federal`
## `X16Custom Education (MSPACE Included)Government: Australia: Local & State`
## `X16Custom Education (MSPACE Included)Government: International`
## `X16Custom Education (MSPACE Included)Large Australian Corporate`
## `X16Custom Education (MSPACE Included)Multinational / Other Large Corporate`
## `X16Custom Education (MSPACE Included)Not for profit`
## `X16Custom Education (MSPACE Included)PFR0 (Publicly-Funded Research Organisation)`
## `X16Custom Education (MSPACE Included)RDC (Rural Research and Development Corporation`
## `X16Custom Education (MSPACE Included)SME (small to medium enterprise)`
## `X16Custom Education (MSPACE Included)University`
## `X16GrantsCRC (Co-operative Research Centre)`
## `X16GrantsGovernment: Australia: Federal`
## `X16GrantsGovernment: Australia: Local & State`
## `X16GrantsGovernment: International`
## `X16GrantsLarge Australian Corporate`
## `X16GrantsMultinational / Other Large Corporate`
## `X16GrantsNot for profit`
## `X16GrantsPFR0 (Publicly-Funded Research Organisation)`
## `X16GrantsRDC (Rural Research and Development Corporations)`
## `X16GrantsSME (small to medium enterprise)`
## X16GrantsUniversity
## `X16InternshipGovernment: Australia: Federal`
## `X16InternshipGovernment: Australia: Local & State`
## `X16InternshipLarge Australian Corporate`
## `X16InternshipMultinational / Other Large Corporate`

```



```

## `X16InternshipNot for profit`
## `X16InternshipSME (small to medium enterprise)`
## `X16PanelGovernment: Australia: Federal`
## `X16PanelGovernment: Australia: Local & State`
## `X16PanelGovernment: International`
## `X16PanelNot for profit`
## X16PanelUniversity
## `X16Parent GrantGovernment: Australia: Federal`
## `X16Parent GrantGovernment: Australia: Local & State`
## `X16Parent GrantNot for profit`
## `X16Parent GrantPFRD (Publicly-Funded Research Organisation)`
## `X16Parent GrantRDC (Rural Research and Development Corporations)`
## `X16Parent GrantUniversity`
## `X16PhilanthropicGovernment: Australia: Local & State`
## `X16PhilanthropicLarge Australian Corporate`
## `X16PhilanthropicMultinational / Other Large Corporate`
## `X16PhilanthropicNot for profit`
## `X16Research ContractCRC (Co-operative Research Centre)`
## `X16Research ContractGovernment: Australia: Federal`
## `X16Research ContractGovernment: Australia: Local & State`
## `X16Research ContractGovernment: International`
## `X16Research ContractLarge Australian Corporate`
## `X16Research ContractMultinational / Other Large Corporate`
## `X16Research ContractNot for profit`
## `X16Research ContractPFRD (Publicly-Funded Research Organisation)`
## `X16Research ContractRDC (Rural Research and Development Corporations)`
## `X16Research ContractSME (small to medium enterprise)`
## `X16Research ContractUniversity`
## `X16SponsorshipGovernment: Australia: Federal`
## `X16SponsorshipGovernment: Australia: Local & State`
## `X16SponsorshipGovernment: International`
## `X16SponsorshipLarge Australian Corporate`
## `X16SponsorshipMultinational / Other Large Corporate`
## `X16SponsorshipNot for profit`
## `X16SponsorshipSME (small to medium enterprise)`
## X16SponsorshipUniversity
## `X16Technology TransferGovernment: Australia: Federal`
## `X16Technology TransferGovernment: Australia: Local & State`
## `X16Technology TransferGovernment: International`
## `X16Technology TransferLarge Australian Corporate`
## `X16Technology TransferMultinational / Other Large Corporate`
## `X16Technology TransferNot for profit`
## `X16Technology TransferPFRD (Publicly-Funded Research Organisation)`
## `X16Technology TransferRDC (Rural Research and Development Corporations)`
## `X16Technology TransferSME (small to medium enterprise)`

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## `X16Technology TransferUniversity`
## X170012e000002ZFZYAA4Panel
## `X170012e000002ZFZYAA4Research Contract`
## `X170012e000002ZGfbAAGCompetitive Bid`
## `X170012e000002ZGfbAAGConsultancy (Non-research)`
## `X170012e000002ZGfbAAGCustom Education (MSPACE Included)`
## X170012e000002ZGfbAAGGrants
## X170012e000002ZGfbAAGInternship
## X170012e000002ZGfbAAGPanel
## X170012e000002ZGfbAAGPhilanthropic
## `X170012e000002ZGfbAAGResearch Contract`
## X170012e000002ZGfbAAGSponsorship
## `X170012e000002ZGfbAAGTechnology Transfer`
## `X170012e000002ZLg7AAGCompetitive Bid`
## `X170012e000002ZLg7AAGConsultancy (Non-research)`
## `X170012e000002ZLg7AAGCustom Education (MSPACE Included)`
## X170012e000002ZLg7AAGGrants
## X170012e000002ZLg7AAGInternship
## X170012e000002ZLg7AAGPanel
## X170012e000002ZLg7AAGPhilanthropic
## `X170012e000002ZLg7AAGResearch Contract`
## X170012e000002ZLg7AAGSponsorship
## `X170012e000002ZLg7AAGTechnology Transfer`
## `X170012e000002ZLgIAAWConsultancy (Non-research)`
## `X170012e000002ZLgIAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgIAAWGrants
## X170012e000002ZLgIAAWPanel
## X170012e000002ZLgIAAWPhilanthropic
## `X170012e000002ZLgIAAWResearch Contract`
## `X170012e000002ZLgIAAWTechnology Transfer`
## `X170012e000002ZLgJAAWCompetitive Bid`
## `X170012e000002ZLgJAAWConsultancy (Non-research)`
## `X170012e000002ZLgJAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgJAAWGrants
## X170012e000002ZLgJAAWInternship
## X170012e000002ZLgJAAWPanel
## X170012e000002ZLgJAAWPhilanthropic
## `X170012e000002ZLgJAAWResearch Contract`
## X170012e000002ZLgJAAWSponsorship
## `X170012e000002ZLgJAAWTechnology Transfer`
## `X170012e000002ZmnxAACConsultancy (Non-research)`
## `X170012e000002ZmnxAACCustom Education (MSPACE Included)`
## X170012e000002ZmnxAACGrants
## X170012e000002ZmnxAACInternship
## X170012e000002ZmnxAACPPanel

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## X170012e000002ZmnxAACPhilanthropic
## `X170012e000002ZmnxAACResearch Contract`
## X170012e000002ZmnxAACSponsorship
## `X170012e000002ZmnxAACTechnology Transfer`
## `X170012e000002ZmnzAACCompetitive Bid`
## `X170012e000002ZmnzAACConsultancy (Non-research)`
## `X170012e000002ZmnzAACCustom Education (MSPACE Included)`
## X170012e000002ZmnzAACGrants
## X170012e000002ZmnzAACInternship
## X170012e000002ZmnzAACPanel
## X170012e000002ZmnzAACPhilanthropic
## `X170012e000002ZmnzAACResearch Contract`
## X170012e000002ZmnzAACSponsorship
## `X170012e000002ZmnzAACTechnology Transfer`
## `X170012e000002Zmo0AACCompetitive Bid`
## `X170012e000002Zmo0AACConsultancy (Non-research)`
## `X170012e000002Zmo0AACCustom Education (MSPACE Included)`
## X170012e000002Zmo0AACGrants
## X170012e000002Zmo0AACPanel
## X170012e000002Zmo0AACPhilanthropic
## `X170012e000002Zmo0AACResearch Contract`
## X170012e000002Zmo0AACSponsorship
## `X170012e000002Zmo0AACTechnology Transfer`
## `X170012e000002ZmOUAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOUAA0Internship
## `X170012e000002ZmOUAA0Research Contract`
## `X170012e000002ZmOZAA0Consultancy (Non-research)`
## `X170012e000002ZmOZAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOZAA0Grants
## X170012e000002ZmOZAA0Internship
## X170012e000002ZmOZAA0Philanthropic
## `X170012e000002ZmOZAA0Research Contract`
## `X170012e000002ZNY0AA4Consultancy (Non-research)`
## `X170012e000002ZNY0AA4Custom Education (MSPACE Included)`
## X170012e000002ZNY0AA4Grants
## X170012e000002ZNY0AA4Internship
## X170012e000002ZNY0AA4Panel
## X170012e000002ZNY0AA4Philanthropic
## `X170012e000002ZNY0AA4Research Contract`
## X170012e000002ZNY0AA4Sponsorship
## `X170012e000002ZNY0AA4Technology Transfer`
## X170012e000002Zt0MAASGrants
## X170012e000002Zt1iAACGrants
## `X170012e000002Zt1RAASCompetitive Bid`
## `X170012e000002Zt1RAASConsultancy (Non-research)`

```

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## `X170012e000002Zt1RAASCustom Education (MSPACE Included)`
## X170012e000002Zt1RAASGrants
## X170012e000002Zt1RAASPanel
## `X170012e000002Zt1RAASResearch Contract`
## X170012e000002Zt1zAACPhilanthropic
## `X17NotGivenCo-Location`
## `X17NotGivenCompetitive Bid`
## `X17NotGivenConsultancy (Non-research)`
## `X17NotGivenCustom Education (MSPACE Included)`
## X17NotGivenGrants
## X17NotGivenInternship
## X17NotGivenPanel
## `X17NotGivenParent Grant`
## X17NotGivenPhilanthropic
## `X17NotGivenResearch Contract`
## X17NotGivenSponsorship
## `X17NotGivenTechnology Transfer`
## `X18Co-LocationHealth`
## `X18Co-LocationManufacturing & R&D`
## `X18Co-LocationMining Equipment and Technology Services`
## `X18Co-LocationPublic Administration`
## `X18Co-LocationServices`
## `X18Co-LocationTechnology: IT & Telephone Services`
## `X18Co-LocationTransportation & Logistics`
## `X18Competitive BidAgriculture & Horticulture`
## `X18Competitive BidConstruction & Construction Materials`
## `X18Competitive BidDefence`
## `X18Competitive BidEnergy & Utilities`
## `X18Competitive BidHealth`
## `X18Competitive BidManufacturing & R&D`
## `X18Competitive BidMining & Refining`
## `X18Competitive BidPublic Administration`
## `X18Competitive BidServices`
## `X18Competitive BidTechnology: IT & Telephone Services`
## `X18Competitive BidTransportation & Logistics`
## `X18Consultancy (Non-research)Advertising, Marketing and PR`
## `X18Consultancy (Non-research)Agriculture & Horticulture`
## `X18Consultancy (Non-research)Construction & Construction Materials`
## `X18Consultancy (Non-research)Defence`
## `X18Consultancy (Non-research)Education`
## `X18Consultancy (Non-research)Energy & Utilities`
## `X18Consultancy (Non-research)Forestry & Paper`
## `X18Consultancy (Non-research)Health`
## `X18Consultancy (Non-research)Manufacturing & R&D`
## `X18Consultancy (Non-research)Materials: Chemicals & Industrial Metals`

```

```

## `X18Consultancy (Non-research)Mining & Refining`
## `X18Consultancy (Non-research)Public Administration`
## `X18Consultancy (Non-research)Services`
## `X18Consultancy (Non-research)Technology: IT & Telephone Services`
## `X18Consultancy (Non-research)Transportation & Logistics`
## `X18Consultancy (Non-research)UNKNOWN`
## `X18Consultancy (Non-research)Veterinary`
## `X18Custom Education (MSPACE Included)Advertising, Marketing and PR`
## `X18Custom Education (MSPACE Included)Agriculture & Horticulture`
## `X18Custom Education (MSPACE Included)Aquaculture & Fisheries`
## `X18Custom Education (MSPACE Included)Construction & Construction Materials`
## `X18Custom Education (MSPACE Included)Defence`
## `X18Custom Education (MSPACE Included)Education`
## `X18Custom Education (MSPACE Included)Energy & Utilities`
## `X18Custom Education (MSPACE Included)Health`
## `X18Custom Education (MSPACE Included)Manufacturing & R&D`
## `X18Custom Education (MSPACE Included)Materials: Chemicals & Industrial Metals`
## `X18Custom Education (MSPACE Included)Mining & Refining`
## `X18Custom Education (MSPACE Included)Mining Equipment and Technology Services`
## `X18Custom Education (MSPACE Included)Public Administration`
## `X18Custom Education (MSPACE Included)Services`
## `X18Custom Education (MSPACE Included)Technology: IT & Telephone Services`
## `X18Custom Education (MSPACE Included)Transportation & Logistics`
## `X18Custom Education (MSPACE Included)Veterinary`
## `X18GrantsAgriculture & Horticulture`
## `X18GrantsAquaculture & Fisheries`
## `X18GrantsConstruction & Construction Materials`
## X18GrantsDefence
## X18GrantsEducation
## `X18GrantsEnergy & Utilities`
## X18GrantsHealth
## `X18GrantsManufacturing & R&D`
## `X18GrantsMining & Refining`
## `X18GrantsMining Equipment and Technology Services`
## `X18GrantsPublic Administration`
## X18GrantsServices
## `X18GrantsTechnology: IT & Telephone Services`
## `X18GrantsTransportation & Logistics`
## `X18InternshipAgriculture & Horticulture`
## X18InternshipDefence
## X18InternshipEducation
## X18InternshipHealth
## `X18InternshipManufacturing & R&D`
## `X18InternshipMaterials: Chemicals & Industrial Metals`
## `X18InternshipPublic Administration`

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## X18InternshipServices
## `X18InternshipTechnology: IT & Telephone Services`
## `X18InternshipTransportation & Logistics`
## `X18PanelAgriculture & Horticulture`
## `X18PanelConstruction & Construction Materials`
## X18PanelDefence
## `X18PanelEnergy & Utilities`
## X18PanelHealth
## `X18PanelPublic Administration`
## X18PanelServices
## `X18PanelTransportation & Logistics`
## `X18Parent GrantAgriculture & Horticulture`
## `X18Parent GrantHealth`
## `X18Parent GrantMining & Refining`
## `X18Parent GrantPublic Administration`
## `X18Parent GrantServices`
## X18PhilanthropicHealth
## `X18PhilanthropicManufacturing & R&D`
## X18PhilanthropicServices
## `X18PhilanthropicTechnology: IT & Telephone Services`
## `X18PhilanthropicTransportation & Logistics`
## `X18Research ContractAdvertising, Marketing and PR`
## `X18Research ContractAgriculture & Horticulture`
## `X18Research ContractAquaculture & Fisheries`
## `X18Research ContractConstruction & Construction Materials`
## `X18Research ContractDefence`
## `X18Research ContractEducation`
## `X18Research ContractEnergy & Utilities`
## `X18Research ContractForestry & Paper`
## `X18Research ContractHealth`
## `X18Research ContractManufacturing & R&D`
## `X18Research ContractMaterials: Chemicals & Industrial Metals`
## `X18Research ContractMining & Refining`
## `X18Research ContractMining Equipment and Technology Services`
## `X18Research ContractPublic Administration`
## `X18Research ContractServices`
## `X18Research ContractTechnology: IT & Telephone Services`
## `X18Research ContractTransportation`
## `X18Research ContractTransportation & Logistics`
## `X18Research ContractUNKNOWN`
## `X18Research ContractVeterinary`
## `X18SponsorshipAgriculture & Horticulture`
## X18SponsorshipDefence
## X18SponsorshipHealth
## `X18SponsorshipPublic Administration`

```

```

## X18SponsorshipServices
## `X18SponsorshipTechnology: IT & Telephone Services`
## `X18Technology TransferAgriculture & Horticulture`
## `X18Technology TransferConstruction & Construction Materials`
## `X18Technology TransferEducation`
## `X18Technology TransferEnergy & Utilities`
## `X18Technology TransferHealth`
## `X18Technology TransferManufacturing & R&D`
## `X18Technology TransferMaterials: Chemicals & Industrial Metals`
## `X18Technology TransferMining & Refining`
## `X18Technology TransferMining Equipment and Technology Services`
## `X18Technology TransferPublic Administration`
## `X18Technology TransferServices`
## `X18Technology TransferTechnology: IT & Telephone Services`
## `X18Technology TransferTransportation & Logistics`
## `X18Technology TransferVeterinary`
## X19
## `factor(X20)1`
##
## (Intercept)
## `X2Competitive Bid`
## `X2Consultancy (Non-research)`
## `X2Custom Education (MSPACE Included)`
## X2Grants
## X2Internship
## X2Panel
## `X2Parent Grant`
## X2Philanthropic
## `X2Research Contract`
## X2Sponsorship
## `X2Technology Transfer`
## `X3RIC RE&D and BD&I`
## `X3RIC-BD&I`
## `X3RIC-RE&D`
## X40012e000002ZGfbAAG
## X40012e000002ZLg7AAG
## X40012e000002ZLgIAAW
## X40012e000002ZLgJAAW
## X40012e000002ZmnxAAC
## X40012e000002ZmnzAAC
## X40012e000002Zmo0AAC
## X40012e000002ZmOUAA0
## X40012e000002ZmOZAA0
## X40012e000002ZNYOAA4
## X40012e000002Zt0MAAS

```

X40012e000002Zt1iAAC
X40012e000002Zt1RAAS
X40012e000002Zt1zAAC
X4NotGiven
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X50012e000002YmBqAAK
X50012e000002YmMXAAO
X50012e000002YmNRAAO
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X50012e000002YneJAAS
X50012e000002YnERAAO
X50012e000002YnrYAAS
X50012e000002YoY7AAK
X50012e000002YoYUAAO
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X50012e000002Zt1FAAS
X50012e000002Zt1MAAS
X50012e000002Zt1PAAS
X50012e000002Zt1VAAS
X50012e000002Zt20AAC


```

## X50012e000002Zt21AAC
## X50012e000002Zt25AAC
## X50012e000002Zt28AAC
## X50012e000003jZXsAAM
## X5NotGiven
## `factor(X6)1`
## `X7Agriculture & Horticulture`
## `X7Aquaculture & Fisheries`
## `X7Construction & Construction Materials`
## X7Defence
## X7Education
## `X7Energy & Utilities`
## `X7Forestry & Paper`
## X7Health
## `X7Manufacturing & R&D`
## `X7Materials: Chemicals & Industrial Metals`
## `X7Mining & Refining`
## `X7Mining Equipment and Technology Services`
## `X7Public Administration`
## X7Services
## `X7Technology: IT & Telephone Services`
## X7Transportation
## `X7Transportation & Logistics`
## X7UNKNOWN
## X7Veterinary
## X8Aerospace
## `X8Agriculture & Horticulture`
## `X8Aquaculture & Fisheries`
## `X8Automobiles, Heavy Vehicles & Industrial Machinery`
## `X8Biotechnology (non-Pharma)`
## `X8Business & Professional`
## X8Community
## `X8Construction & Construction Materials`
## `X8Consumer Goods`
## X8Defence
## X8Diagnostics
## X8Education
## `X8Energy & Utilities`
## `X8Engineering and Scientific`
## `X8Entertainment & Creative Industries`
## X8Environmental
## `X8Financial & Insurance`
## `X8Food & Beverage`
## `X8Forestry & Paper`
## `X8Hardware, Electronics and Electrical Equipment`

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## `X8Health Care & Healthy Aging`
## `X8Materials: Chemicals & Industrial Metals`
## `X8Medical Devices`
## `X8Mining & Refining`
## `X8Mining Equipment and Technology Services`
## X8Pharmaceuticals
## `X8Public Administration`
## `X8Research Tools/Consumables`
## `X8Retail, Travel, Hospitality & Leisure`
## `X8Technology: IT & Telephone Services`
## X8Transportation
## `X8Transportation & Logistics`
## X8UNKNOWN
## X8Veterinary
## `X9Government: Australia: Federal`
## `X9Government: Australia: Local & State`
## `X9Government: International`
## `X9Large Australian Corporate`
## `X9Multinational / Other Large Corporate`
## `X9Not for profit`
## `X9PFR0 (Publicly-Funded Research Organisation)`
## `X9RDC (Rural Research and Development Corporations)`
## `X9SME (small to medium enterprise)`
## X9University
## `factor(X10)1`
## `factor(X11)1`
## `factor(X12)1`
## X13
## X14
## X15
## `X16Co-LocationLarge Australian Corporate`
## `X16Co-LocationMultinational / Other Large Corporate`
## `X16Co-LocationNot for profit`
## `X16Co-LocationSME (small to medium enterprise)`
## `X16Competitive BidCRC (Co-operative Research Centre)`
## `X16Competitive BidGovernment: Australia: Federal`
## `X16Competitive BidGovernment: Australia: Local & State`
## `X16Competitive BidGovernment: International`
## `X16Competitive BidLarge Australian Corporate`
## `X16Competitive BidMultinational / Other Large Corporate`
## `X16Competitive BidNot for profit`
## `X16Competitive BidPFR0 (Publicly-Funded Research Organisation)`
## `X16Competitive BidRDC (Rural Research and Development Corporations)`
## `X16Consultancy (Non-research)Government: Australia: Federal`
## `X16Consultancy (Non-research)Government: Australia: Local & State`

```

```

## `X16Consultancy (Non-research)Government: International`
## `X16Consultancy (Non-research)Large Australian Corporate`
## `X16Consultancy (Non-research)Multinational / Other Large Corporate`
## `X16Consultancy (Non-research)Not for profit`
## `X16Consultancy (Non-research)PFR0 (Publicly-Funded Research Organisation)`
## `X16Consultancy (Non-research)SME (small to medium enterprise)`
## `X16Consultancy (Non-research)University`
## `X16Custom Education (MSPACE Included)Government: Australia: Federal`
## `X16Custom Education (MSPACE Included)Government: Australia: Local & State`
## `X16Custom Education (MSPACE Included)Government: International`
## `X16Custom Education (MSPACE Included)Large Australian Corporate`
## `X16Custom Education (MSPACE Included)Multinational / Other Large Corporate`
## `X16Custom Education (MSPACE Included)Not for profit`
## `X16Custom Education (MSPACE Included)PFR0 (Publicly-Funded Research Organisation)`
## `X16Custom Education (MSPACE Included)RDC (Rural Research and Development Corporation`
## `X16Custom Education (MSPACE Included)SME (small to medium enterprise)`
## `X16Custom Education (MSPACE Included)University`
## `X16GrantsCRC (Co-operative Research Centre)`
## `X16GrantsGovernment: Australia: Federal`
## `X16GrantsGovernment: Australia: Local & State`
## `X16GrantsGovernment: International`
## `X16GrantsLarge Australian Corporate`
## `X16GrantsMultinational / Other Large Corporate`
## `X16GrantsNot for profit`
## `X16GrantsPFR0 (Publicly-Funded Research Organisation)`
## `X16GrantsRDC (Rural Research and Development Corporations)`
## `X16GrantsSME (small to medium enterprise)`
## X16GrantsUniversity
## `X16InternshipGovernment: Australia: Federal`
## `X16InternshipGovernment: Australia: Local & State`
## `X16InternshipLarge Australian Corporate`
## `X16InternshipMultinational / Other Large Corporate`
## `X16InternshipNot for profit`
## `X16InternshipSME (small to medium enterprise)`
## `X16PanelGovernment: Australia: Federal`
## `X16PanelGovernment: Australia: Local & State`
## `X16PanelGovernment: International`
## `X16PanelNot for profit`
## X16PanelUniversity
## `X16Parent GrantGovernment: Australia: Federal`
## `X16Parent GrantGovernment: Australia: Local & State`
## `X16Parent GrantNot for profit`
## `X16Parent GrantPFR0 (Publicly-Funded Research Organisation)`
## `X16Parent GrantRDC (Rural Research and Development Corporations)`
## `X16Parent GrantUniversity`

```

```

## `X16PhilanthropicGovernment: Australia: Local & State`
## `X16PhilanthropicLarge Australian Corporate`
## `X16PhilanthropicMultinational / Other Large Corporate`
## `X16PhilanthropicNot for profit`
## `X16Research ContractCRC (Co-operative Research Centre)`
## `X16Research ContractGovernment: Australia: Federal`
## `X16Research ContractGovernment: Australia: Local & State`
## `X16Research ContractGovernment: International`
## `X16Research ContractLarge Australian Corporate`
## `X16Research ContractMultinational / Other Large Corporate`
## `X16Research ContractNot for profit`
## `X16Research ContractPFR0 (Publicly-Funded Research Organisation)`
## `X16Research ContractRDC (Rural Research and Development Corporations)`
## `X16Research ContractSME (small to medium enterprise)`
## `X16Research ContractUniversity`
## `X16SponsorshipGovernment: Australia: Federal`
## `X16SponsorshipGovernment: Australia: Local & State`
## `X16SponsorshipGovernment: International`
## `X16SponsorshipLarge Australian Corporate`
## `X16SponsorshipMultinational / Other Large Corporate`
## `X16SponsorshipNot for profit`
## `X16SponsorshipSME (small to medium enterprise)`
## X16SponsorshipUniversity
## `X16Technology TransferGovernment: Australia: Federal`
## `X16Technology TransferGovernment: Australia: Local & State`
## `X16Technology TransferGovernment: International`
## `X16Technology TransferLarge Australian Corporate`
## `X16Technology TransferMultinational / Other Large Corporate`
## `X16Technology TransferNot for profit`
## `X16Technology TransferPFR0 (Publicly-Funded Research Organisation)`
## `X16Technology TransferRDC (Rural Research and Development Corporations)`
## `X16Technology TransferSME (small to medium enterprise)`
## `X16Technology TransferUniversity`
## X170012e000002ZFZYAA4Panel
## `X170012e000002ZFZYAA4Research Contract`
## `X170012e000002ZGfbAAGCompetitive Bid`
## `X170012e000002ZGfbAAGConsultancy (Non-research)`
## `X170012e000002ZGfbAAGCustom Education (MSPACE Included)`
## X170012e000002ZGfbAAGGrants
## X170012e000002ZGfbAAGInternship
## X170012e000002ZGfbAAGPanel
## X170012e000002ZGfbAAGPhilanthropic
## `X170012e000002ZGfbAAGResearch Contract`
## X170012e000002ZGfbAAGSponsorship
## `X170012e000002ZGfbAAGTechnology Transfer`

```

```

## `X170012e000002ZLg7AAGCompetitive Bid`
## `X170012e000002ZLg7AAGConsultancy (Non-research)`
## `X170012e000002ZLg7AAGCustom Education (MSPACE Included)`
## X170012e000002ZLg7AAGGrants
## X170012e000002ZLg7AAGInternship
## X170012e000002ZLg7AAGPanel
## X170012e000002ZLg7AAGPhilanthropic
## `X170012e000002ZLg7AAGResearch Contract`
## X170012e000002ZLg7AAGSponsorship
## `X170012e000002ZLg7AAGTechnology Transfer`
## `X170012e000002ZLgIAAWConsultancy (Non-research)`
## `X170012e000002ZLgIAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgIAAWGrants
## X170012e000002ZLgIAAWPanel
## X170012e000002ZLgIAAWPhilanthropic
## `X170012e000002ZLgIAAWResearch Contract`
## `X170012e000002ZLgIAAWTechnology Transfer`
## `X170012e000002ZLgJAAWCompetitive Bid`
## `X170012e000002ZLgJAAWConsultancy (Non-research)`
## `X170012e000002ZLgJAAWCustom Education (MSPACE Included)`
## X170012e000002ZLgJAAWGrants
## X170012e000002ZLgJAAWInternship
## X170012e000002ZLgJAAWPanel
## X170012e000002ZLgJAAWPhilanthropic
## `X170012e000002ZLgJAAWResearch Contract`
## X170012e000002ZLgJAAWSponsorship
## `X170012e000002ZLgJAAWTechnology Transfer`
## `X170012e000002ZmnxAACConsultancy (Non-research)`
## `X170012e000002ZmnxAACCustom Education (MSPACE Included)`
## X170012e000002ZmnxAACGrants
## X170012e000002ZmnxAACInternship
## X170012e000002ZmnxAACPanel
## X170012e000002ZmnxAACPhilanthropic
## `X170012e000002ZmnxAACResearch Contract`
## X170012e000002ZmnxAACSponsorship
## `X170012e000002ZmnxAACTechnology Transfer`
## `X170012e000002ZmnzAACCompetitive Bid`
## `X170012e000002ZmnzAACConsultancy (Non-research)`
## `X170012e000002ZmnzAACCustom Education (MSPACE Included)`
## X170012e000002ZmnzAACGrants
## X170012e000002ZmnzAACInternship
## X170012e000002ZmnzAACPanel
## X170012e000002ZmnzAACPhilanthropic
## `X170012e000002ZmnzAACResearch Contract`
## X170012e000002ZmnzAACSponsorship

```

```

## `X170012e000002ZmnzAACTechnology Transfer`
## `X170012e000002Zmo0AACCCompetitive Bid`
## `X170012e000002Zmo0AACCConsultancy (Non-research)`
## `X170012e000002Zmo0AACCcustom Education (MSPACE Included)`
## X170012e000002Zmo0AACGrants
## X170012e000002Zmo0AACPPanel
## X170012e000002Zmo0AACPhilanthropic
## `X170012e000002Zmo0AACResearch Contract`
## X170012e000002Zmo0AACSponsorship
## `X170012e000002Zmo0AACTechnology Transfer`
## `X170012e000002ZmOUAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOUAA0Internship
## `X170012e000002ZmOUAA0Research Contract`
## `X170012e000002ZmOZAA0Consultancy (Non-research)`
## `X170012e000002ZmOZAA0Custom Education (MSPACE Included)`
## X170012e000002ZmOZAA0Grants
## X170012e000002ZmOZAA0Internship
## X170012e000002ZmOZAA0Philanthropic
## `X170012e000002ZmOZAA0Research Contract`
## `X170012e000002ZNY0AA4Consultancy (Non-research)`
## `X170012e000002ZNY0AA4Custom Education (MSPACE Included)`
## X170012e000002ZNY0AA4Grants
## X170012e000002ZNY0AA4Internship
## X170012e000002ZNY0AA4Panel
## X170012e000002ZNY0AA4Philanthropic
## `X170012e000002ZNY0AA4Research Contract`
## X170012e000002ZNY0AA4Sponsorship
## `X170012e000002ZNY0AA4Technology Transfer`
## X170012e000002ZtOMAASGrants
## X170012e000002Zt1iAACGrants
## `X170012e000002Zt1RAASCompetitive Bid`
## `X170012e000002Zt1RAASConsultancy (Non-research)`
## `X170012e000002Zt1RAASCustom Education (MSPACE Included)`
## X170012e000002Zt1RAASGrants
## X170012e000002Zt1RAASPanel
## `X170012e000002Zt1RAASResearch Contract`
## X170012e000002Zt1zAACPhilanthropic
## `X17NotGivenCo-Location`
## `X17NotGivenCompetitive Bid`
## `X17NotGivenConsultancy (Non-research)`
## `X17NotGivenCustom Education (MSPACE Included)`
## X17NotGivenGrants
## X17NotGivenInternship
## X17NotGivenPanel
## `X17NotGivenParent Grant`

```

```

## X17NotGivenPhilanthropic
## `X17NotGivenResearch Contract`
## X17NotGivenSponsorship
## `X17NotGivenTechnology Transfer`
## `X18Co-LocationHealth`
## `X18Co-LocationManufacturing & R&D`
## `X18Co-LocationMining Equipment and Technology Services`
## `X18Co-LocationPublic Administration`
## `X18Co-LocationServices`
## `X18Co-LocationTechnology: IT & Telephone Services`
## `X18Co-LocationTransportation & Logistics`
## `X18Competitive BidAgriculture & Horticulture`
## `X18Competitive BidConstruction & Construction Materials`
## `X18Competitive BidDefence`
## `X18Competitive BidEnergy & Utilities`
## `X18Competitive BidHealth`
## `X18Competitive BidManufacturing & R&D`
## `X18Competitive BidMining & Refining`
## `X18Competitive BidPublic Administration`
## `X18Competitive BidServices`
## `X18Competitive BidTechnology: IT & Telephone Services`
## `X18Competitive BidTransportation & Logistics`
## `X18Consultancy (Non-research)Advertising, Marketing and PR`
## `X18Consultancy (Non-research)Agriculture & Horticulture`
## `X18Consultancy (Non-research)Construction & Construction Materials`
## `X18Consultancy (Non-research)Defence`
## `X18Consultancy (Non-research)Education`
## `X18Consultancy (Non-research)Energy & Utilities`
## `X18Consultancy (Non-research)Forestry & Paper`
## `X18Consultancy (Non-research)Health`
## `X18Consultancy (Non-research)Manufacturing & R&D`
## `X18Consultancy (Non-research)Materials: Chemicals & Industrial Metals`
## `X18Consultancy (Non-research)Mining & Refining`
## `X18Consultancy (Non-research)Public Administration`
## `X18Consultancy (Non-research)Services`
## `X18Consultancy (Non-research)Technology: IT & Telephone Services`
## `X18Consultancy (Non-research)Transportation & Logistics`
## `X18Consultancy (Non-research)UNKNOWN`
## `X18Consultancy (Non-research)Veterinary`
## `X18Custom Education (MSPACE Included)Advertising, Marketing and PR`
## `X18Custom Education (MSPACE Included)Agriculture & Horticulture`
## `X18Custom Education (MSPACE Included)Aquaculture & Fisheries`
## `X18Custom Education (MSPACE Included)Construction & Construction Materials`
## `X18Custom Education (MSPACE Included)Defence`
## `X18Custom Education (MSPACE Included)Education`

```

```

## `X18Custom Education (MSPACE Included)Energy & Utilities`
## `X18Custom Education (MSPACE Included)Health`
## `X18Custom Education (MSPACE Included)Manufacturing & R&D`
## `X18Custom Education (MSPACE Included)Materials: Chemicals & Industrial Metals`
## `X18Custom Education (MSPACE Included)Mining & Refining`
## `X18Custom Education (MSPACE Included)Mining Equipment and Technology Services`
## `X18Custom Education (MSPACE Included)Public Administration`
## `X18Custom Education (MSPACE Included)Services`
## `X18Custom Education (MSPACE Included)Technology: IT & Telephone Services`
## `X18Custom Education (MSPACE Included)Transportation & Logistics`
## `X18Custom Education (MSPACE Included)Veterinary`
## `X18GrantsAgriculture & Horticulture`
## `X18GrantsAquaculture & Fisheries`
## `X18GrantsConstruction & Construction Materials`
## X18GrantsDefence
## X18GrantsEducation
## `X18GrantsEnergy & Utilities`
## X18GrantsHealth
## `X18GrantsManufacturing & R&D`
## `X18GrantsMining & Refining`
## `X18GrantsMining Equipment and Technology Services`
## `X18GrantsPublic Administration`
## X18GrantsServices
## `X18GrantsTechnology: IT & Telephone Services`
## `X18GrantsTransportation & Logistics`
## `X18InternshipAgriculture & Horticulture`
## X18InternshipDefence
## X18InternshipEducation
## X18InternshipHealth
## `X18InternshipManufacturing & R&D`
## `X18InternshipMaterials: Chemicals & Industrial Metals`
## `X18InternshipPublic Administration`
## X18InternshipServices
## `X18InternshipTechnology: IT & Telephone Services`
## `X18InternshipTransportation & Logistics`
## `X18PanelAgriculture & Horticulture`
## `X18PanelConstruction & Construction Materials`
## X18PanelDefence
## `X18PanelEnergy & Utilities`
## X18PanelHealth
## `X18PanelPublic Administration`
## X18PanelServices
## `X18PanelTransportation & Logistics`
## `X18Parent GrantAgriculture & Horticulture`
## `X18Parent GrantHealth`

```



```

## `X18Parent GrantMining & Refining`
## `X18Parent GrantPublic Administration`
## `X18Parent GrantServices`
## X18PhilanthropicHealth
## `X18PhilanthropicManufacturing & R&D`
## X18PhilanthropicServices
## `X18PhilanthropicTechnology: IT & Telephone Services`
## `X18PhilanthropicTransportation & Logistics`
## `X18Research ContractAdvertising, Marketing and PR`
## `X18Research ContractAgriculture & Horticulture`
## `X18Research ContractAquaculture & Fisheries`
## `X18Research ContractConstruction & Construction Materials`
## `X18Research ContractDefence`
## `X18Research ContractEducation`
## `X18Research ContractEnergy & Utilities`
## `X18Research ContractForestry & Paper`
## `X18Research ContractHealth`
## `X18Research ContractManufacturing & R&D`
## `X18Research ContractMaterials: Chemicals & Industrial Metals`
## `X18Research ContractMining & Refining`
## `X18Research ContractMining Equipment and Technology Services`
## `X18Research ContractPublic Administration`
## `X18Research ContractServices`
## `X18Research ContractTechnology: IT & Telephone Services`
## `X18Research ContractTransportation`
## `X18Research ContractTransportation & Logistics`
## `X18Research ContractUNKNOWN`
## `X18Research ContractVeterinary`
## `X18SponsorshipAgriculture & Horticulture`
## X18SponsorshipDefence
## X18SponsorshipHealth
## `X18SponsorshipPublic Administration`
## X18SponsorshipServices
## `X18SponsorshipTechnology: IT & Telephone Services`
## `X18Technology TransferAgriculture & Horticulture`
## `X18Technology TransferConstruction & Construction Materials`
## `X18Technology TransferEducation`
## `X18Technology TransferEnergy & Utilities`
## `X18Technology TransferHealth`
## `X18Technology TransferManufacturing & R&D`
## `X18Technology TransferMaterials: Chemicals & Industrial Metals`
## `X18Technology TransferMining & Refining`
## `X18Technology TransferMining Equipment and Technology Services`
## `X18Technology TransferPublic Administration`
## `X18Technology TransferServices`

```

```
## `X18Technology TransferTechnology: IT & Telephone Services`
## `X18Technology TransferTransportation & Logistics`
## `X18Technology TransferVeterinary`
## X19
## `factor(X20)1`
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance:    7148.3  on 5407  degrees of freedom
## Residual deviance: 114979.3  on 5032  degrees of freedom
## AIC: 115731
##
## Number of Fisher Scoring iterations: 25
```

```
print(model)
```

```
## Generalized Linear Model
##
## 5408 samples
## 19 predictor
## 2 classes: '0', '1'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4868, 4867, 4867, 4867, 4867, 4867, ...
## Resampling results:
##
## Accuracy   Kappa
## 0.6660561  0.2809388
```

```
confusionMatrix(model)
```

```
## Cross-Validated (10 fold) Confusion Matrix
##
## (entries are percentual average cell counts across resamples)
##
##           Reference
## Prediction    0    1
##           0 46.6 17.4
##           1 16.0 20.0
##
## Accuracy (average) : 0.6661
```

Precision = $22.3 / (15.1 + 22.3) = 59.63\%$

$$\text{Recall} = 22.3 / (18.2 + 22.3) = 55.06\%$$