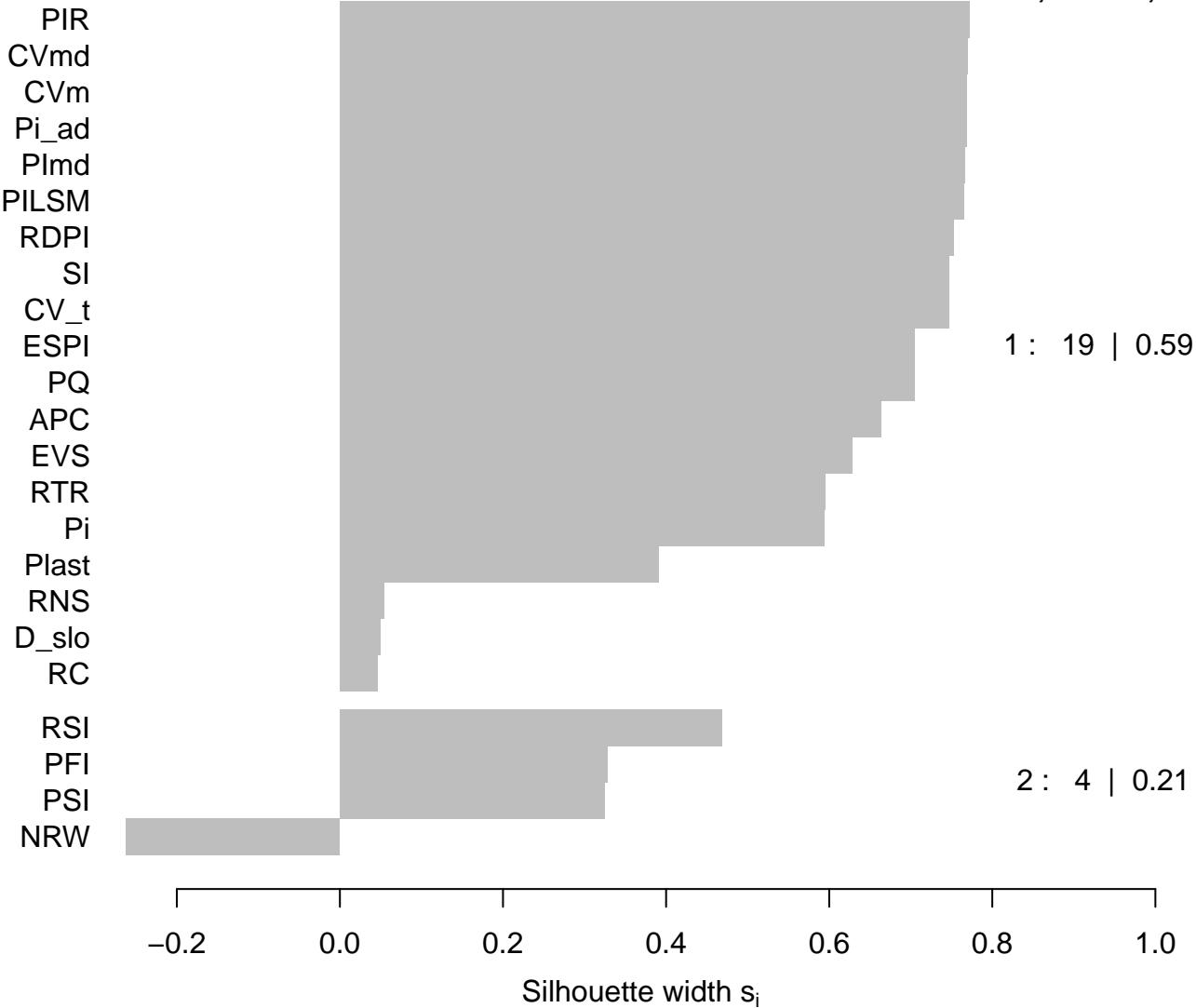


## Silhouette Plot for Best Clustering – Dataset non – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$



Average silhouette width : 0.53

## Silhouette Plot for Best Clustering – Dataset non – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

ESPI  
PQ  
NRW  
SI  
PFI  
APC  
EVS  
CV\_t  
RDPI  
CVmd  
RTR  
Plmd  
CVm  
Pi\_ad  
PILSM  
Pi  
RC  
RNS  
PSI  
PIR

D\_slo  
RSI  
Plast

1 : 20 | 0.38

2 : 3 | 0.42

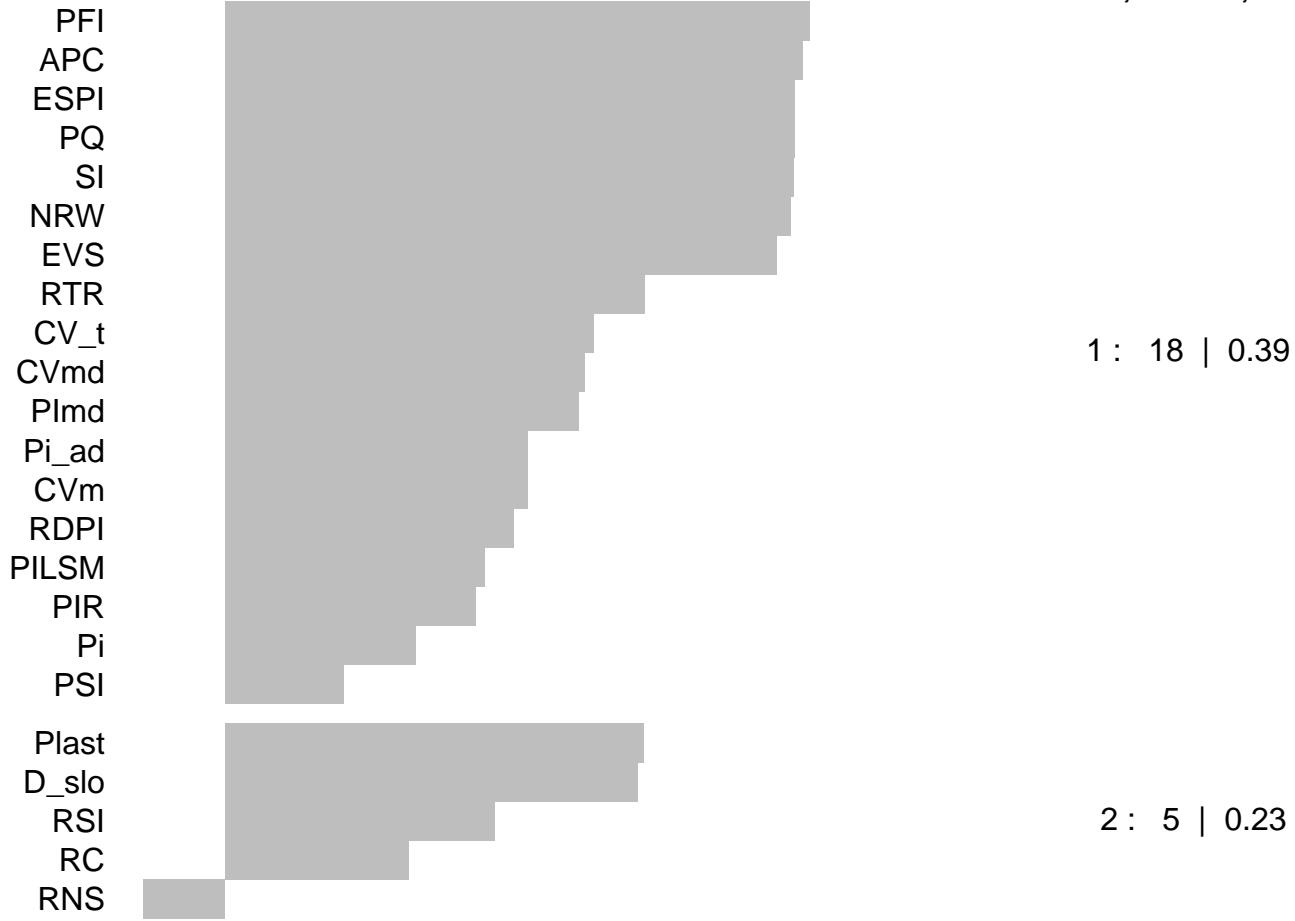


Average silhouette width : 0.38

## Silhouette Plot for Best Clustering – Dataset non – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$



0.0 0.2 0.4 0.6 0.8 1.0

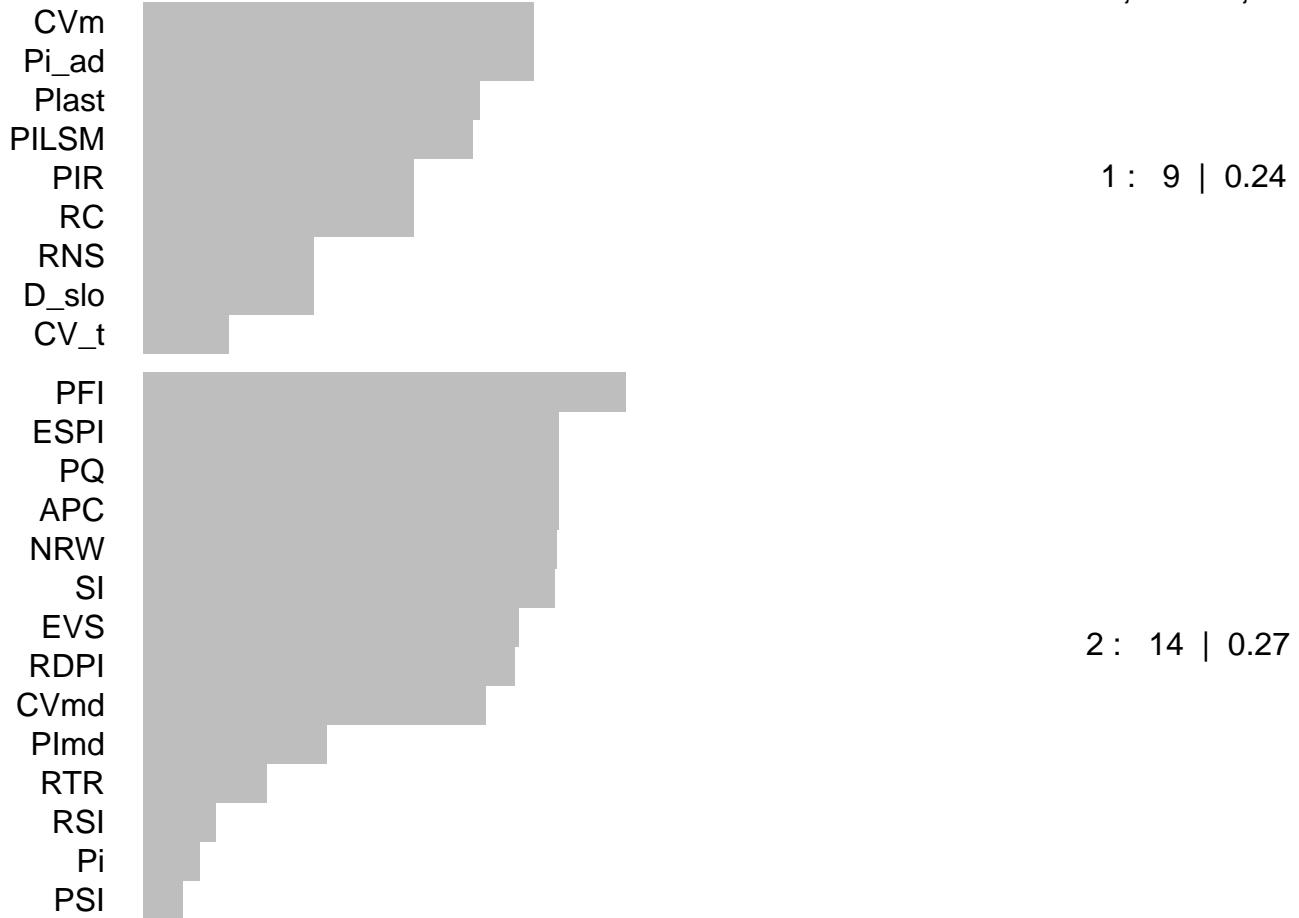
Silhouette width  $s_i$

Average silhouette width : 0.36

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



0.0 0.2 0.4 0.6 0.8 1.0

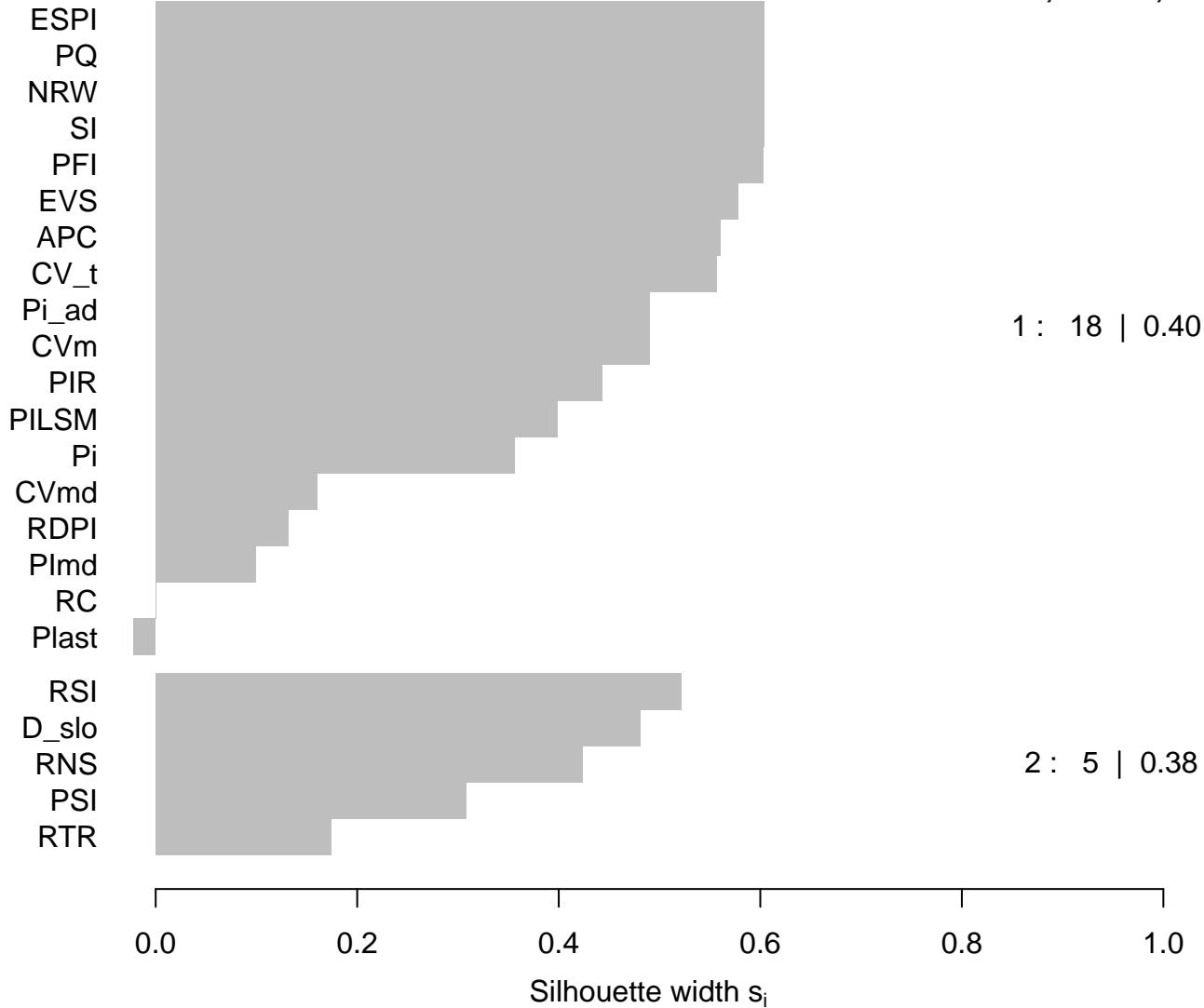
Silhouette width  $s_i$

Average silhouette width : 0.26

# Silhouette Plot for Best Clustering – Dataset non – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$



Average silhouette width : 0.4

## Silhouette Plot for Best Clustering – Dataset non – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$

Plmd  
PILSM  
CVmd  
CVm  
Pi\_ad  
RDPI  
CV\_t  
PIR  
RTR  
ESPI  
PQ  
RC  
APC  
RNS  
D\_slo  
Plast  
SI  
Pi

PFI  
RSI  
NRW  
EVS  
PSI

1 : 18 | 0.74

2 : 5 | 0.27



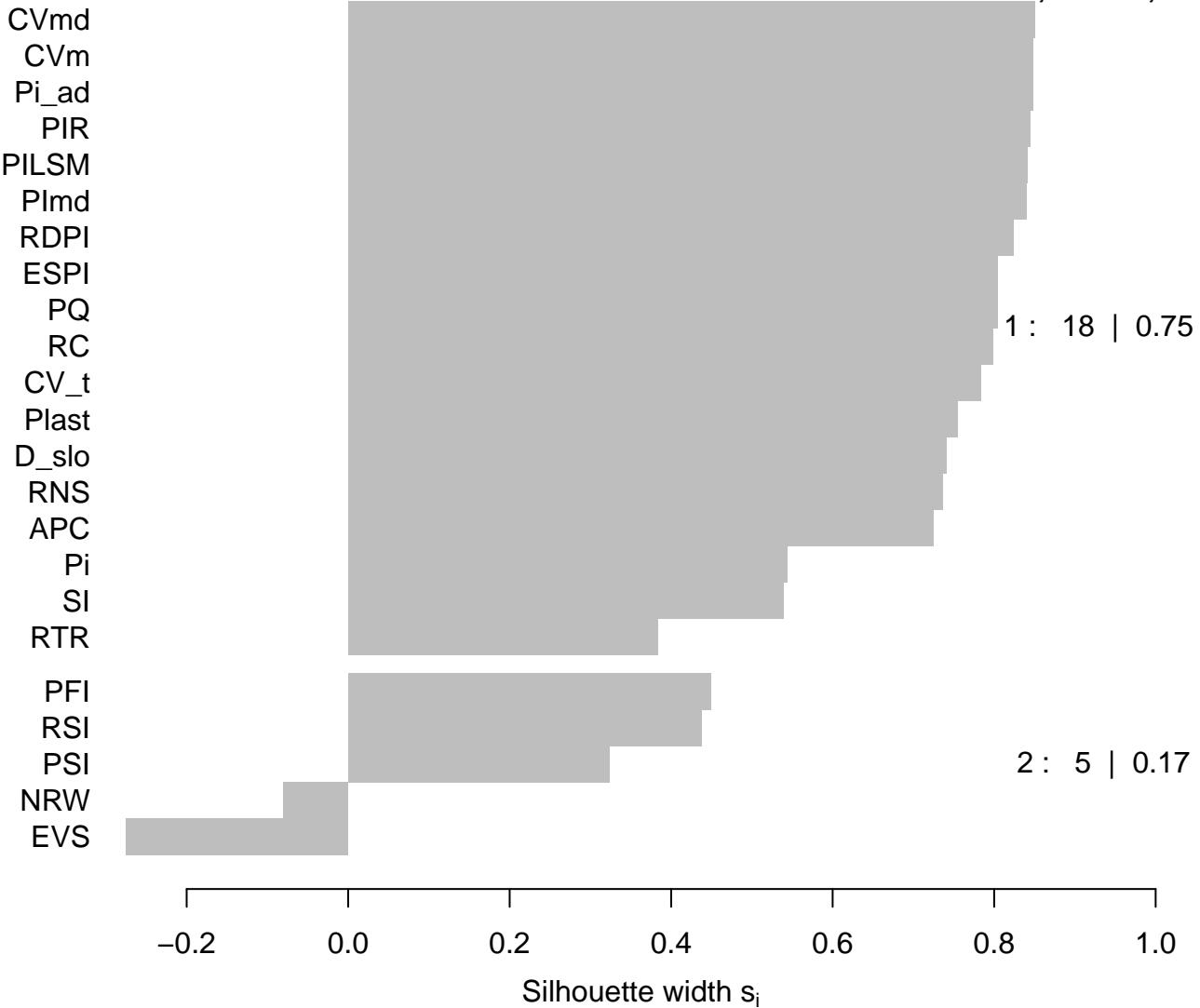
Average silhouette width : 0.64

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 1

n = 23

2 clusters  $C_j$

j :  $n_j | \text{ave}_{i \in C_j} s_i$

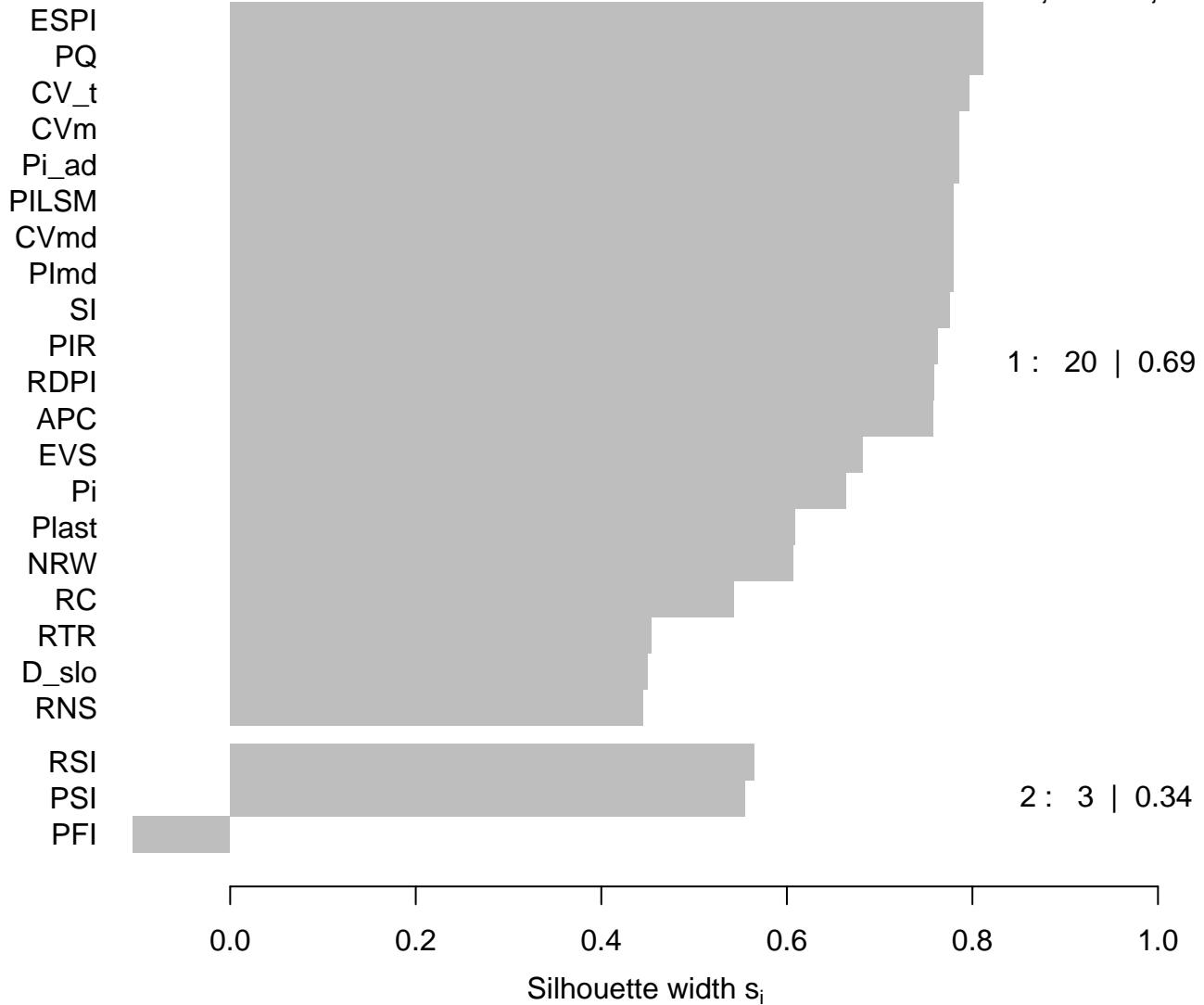


Average silhouette width : 0.62

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

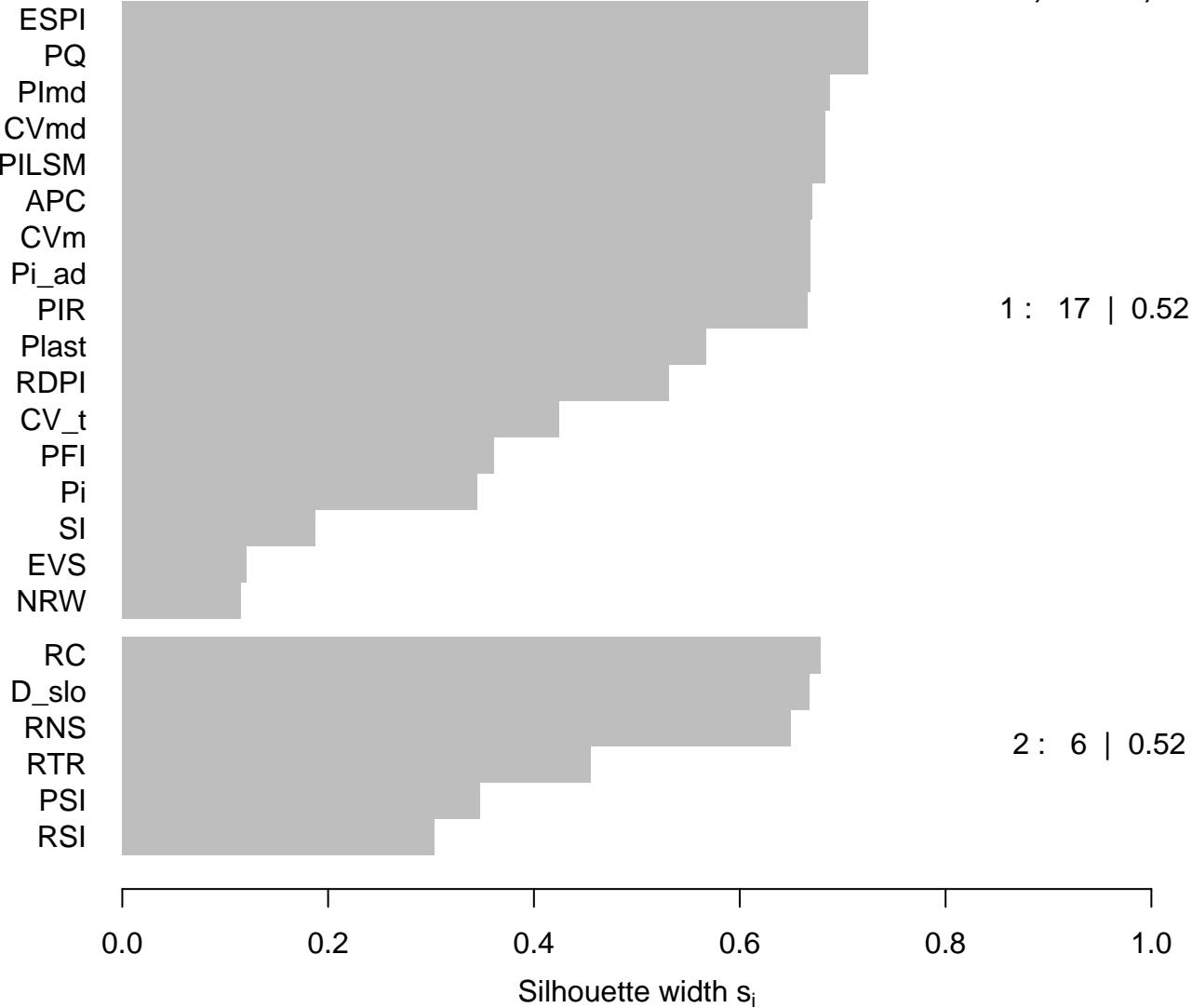


Average silhouette width : 0.65

## Silhouette Plot for Best Clustering – Dataset non – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

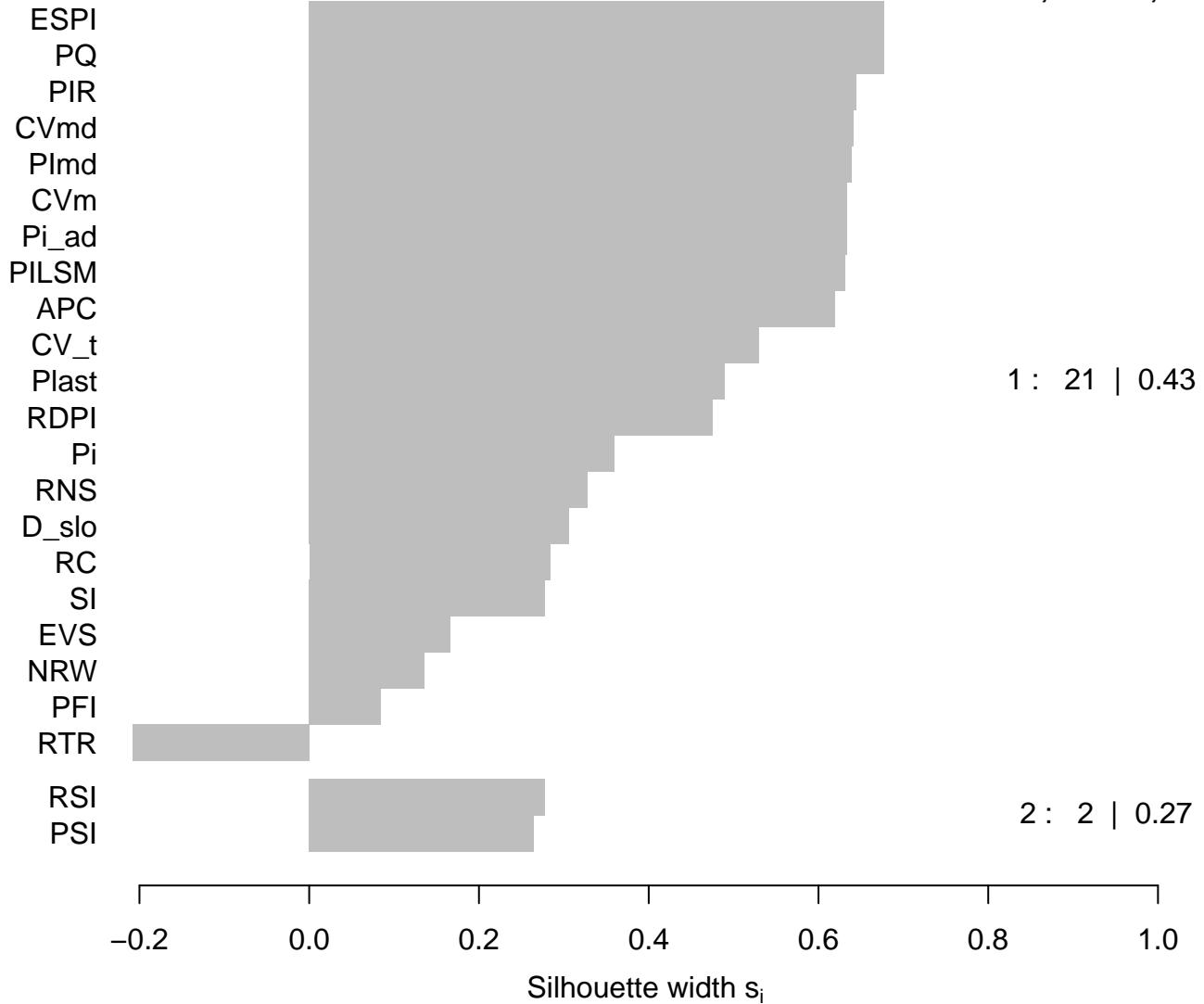


Average silhouette width : 0.52

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 1

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



Average silhouette width : 0.42

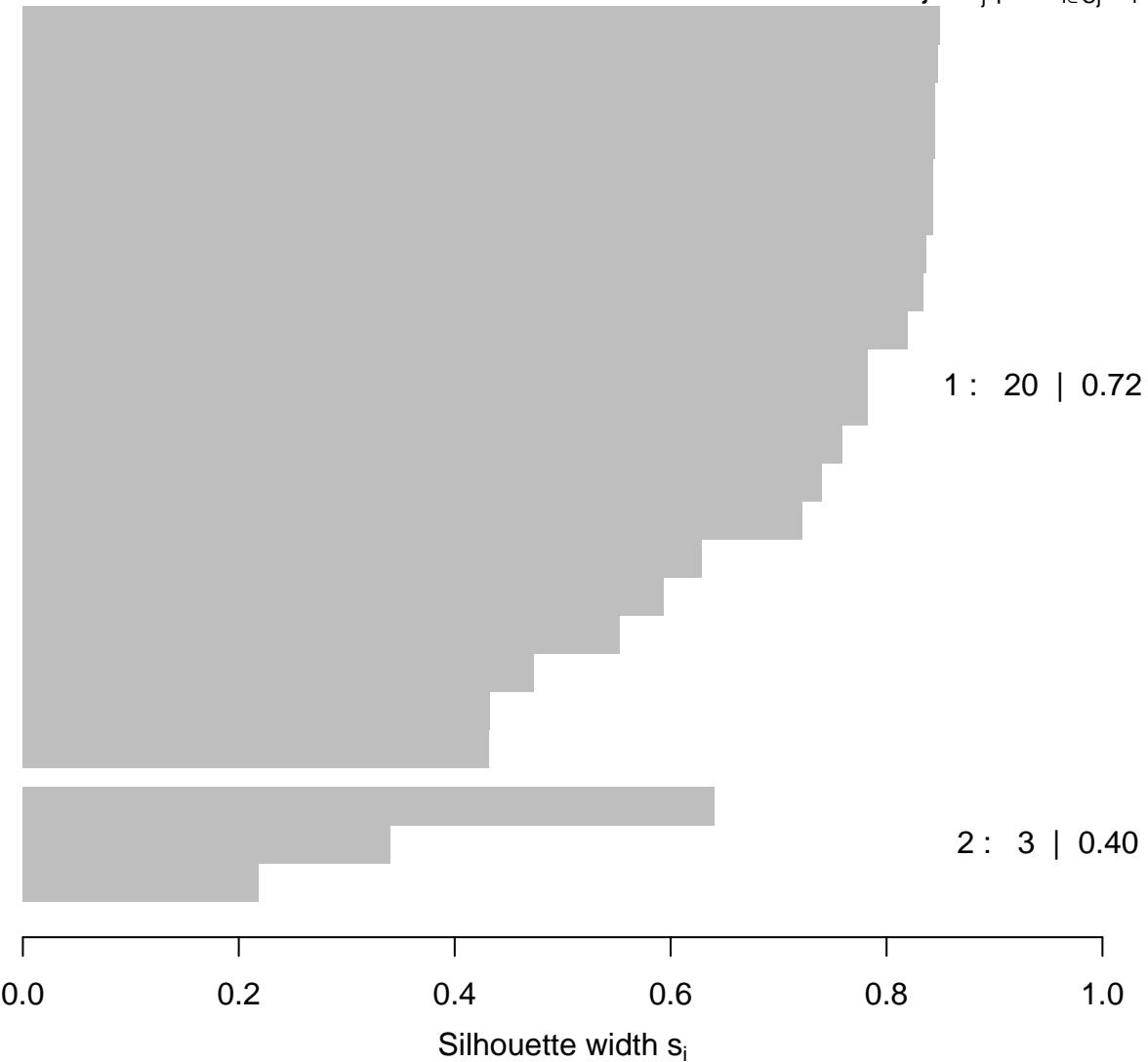
## Silhouette Plot for Best Clustering – Dataset non – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

PILSM  
Plmd  
CVm  
Pi\_ad  
RDPI  
CVmd  
PIR  
CV\_t  
SI  
ESPI  
PQ  
EVS  
Pi  
APC  
RTT  
NRW  
RC  
Plast  
RNS  
D\_slo

RSI  
PFI  
PSI

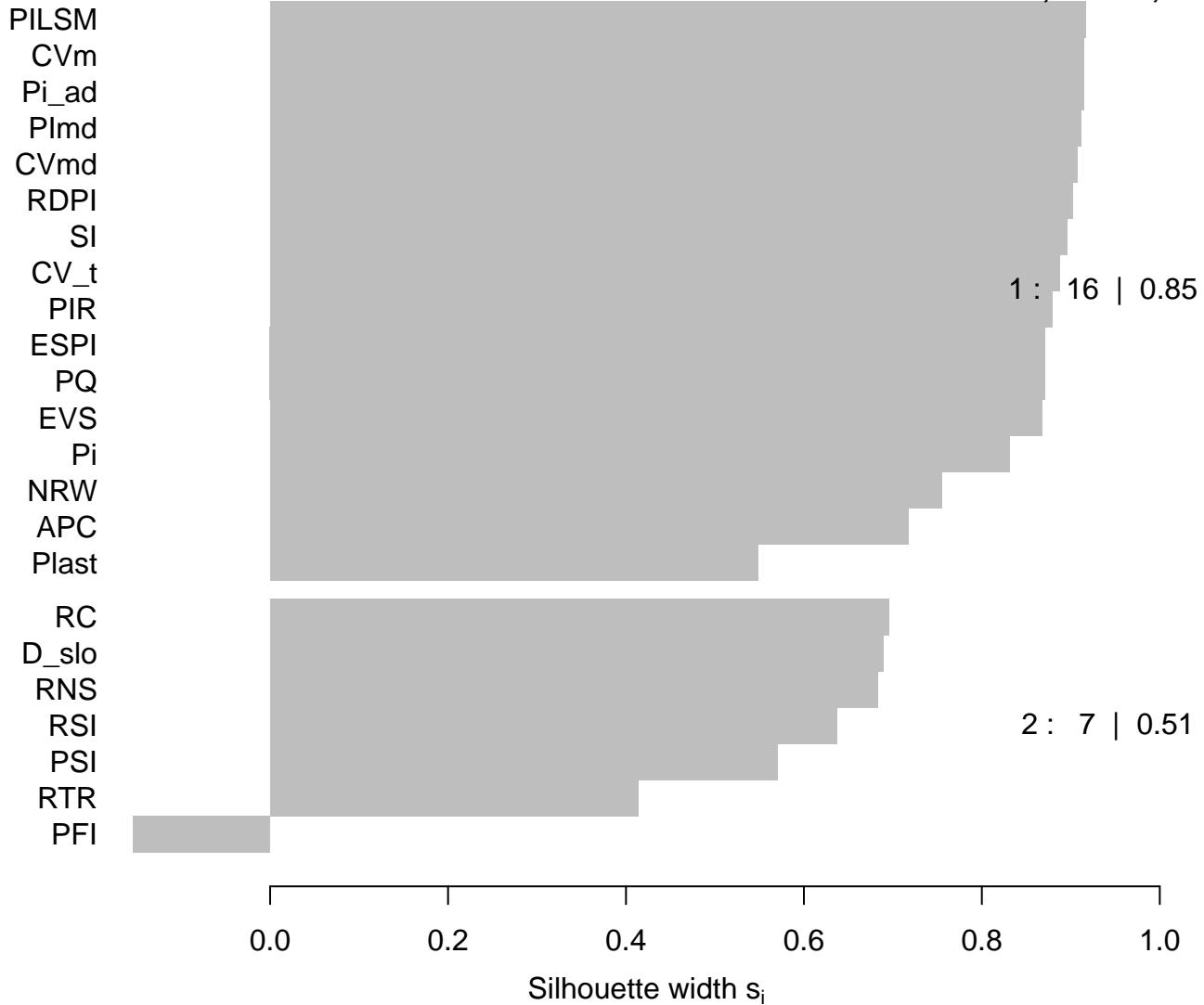


Average silhouette width : 0.68

## Silhouette Plot for Best Clustering – Dataset non – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



Average silhouette width : 0.74

## Silhouette Plot for Best Clustering – Dataset non – Trait 2

n = 23

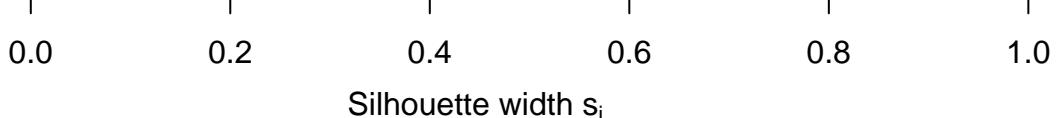
2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

NRW  
EVS  
SI  
ESPI  
PQ  
PFI  
APC  
CV\_t  
CVmd  
Pi\_ad  
CVm  
Pi  
Plmd  
PIR  
RDPI  
PILSM  
Plast  
RC  
PSI

D\_slo  
RNS  
RSI  
RTR

1 : 19 | 0.39

2 : 4 | 0.47

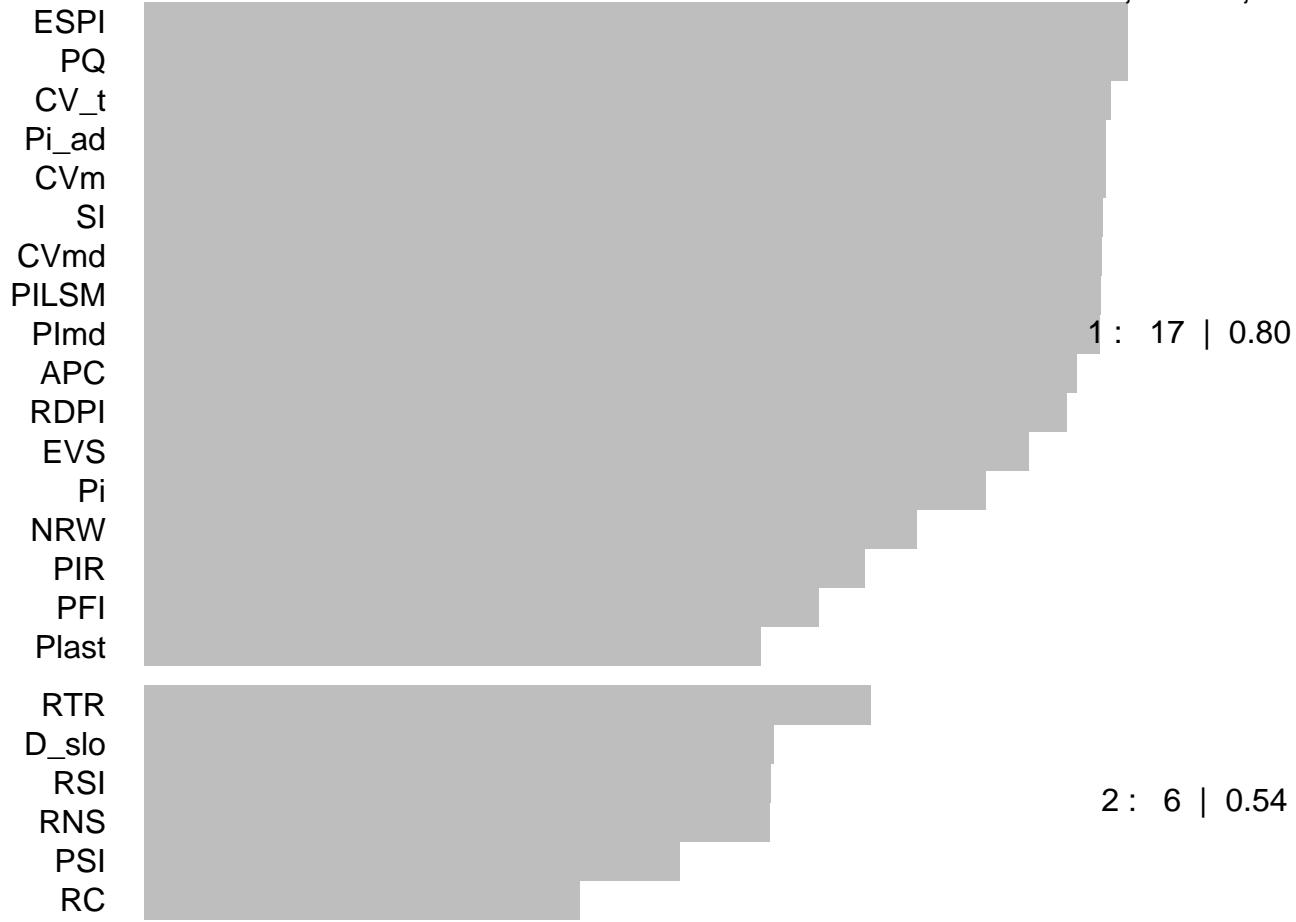


Average silhouette width : 0.41

## Silhouette Plot for Best Clustering – Dataset lognormal – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



0.0 0.2 0.4 0.6 0.8 1.0

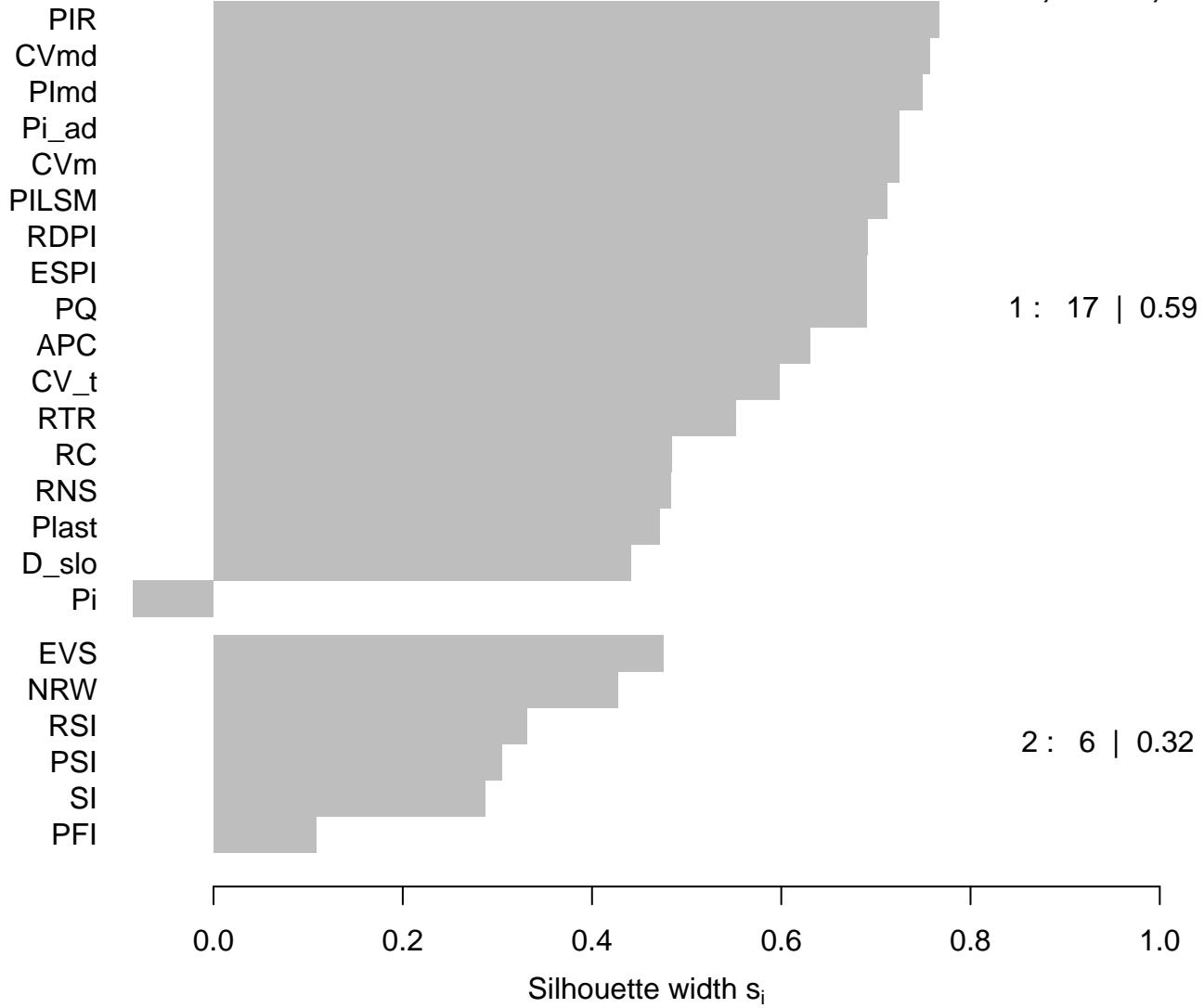
Silhouette width  $s_i$

Average silhouette width : 0.73

## Silhouette Plot for Best Clustering – Dataset non – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



Average silhouette width : 0.52

## Silhouette Plot for Best Clustering – Dataset non – Trait 2

n = 23

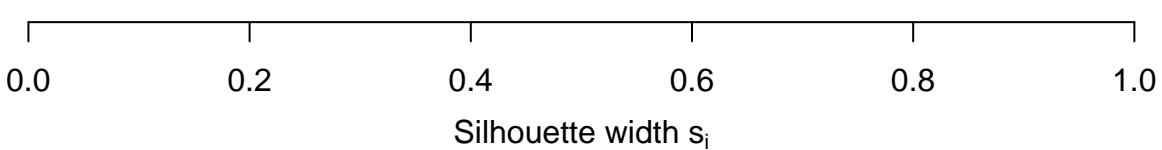
2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$

CVm  
Pi\_ad  
PILSM  
CVmd  
Plmd  
SI  
RDPI  
PIR  
EVS  
NRW  
CV\_t  
ESPI  
PQ  
Pi  
APC  
Plast  
PFI

D\_slo  
RNS  
RC  
RTTR  
RSI  
PSI

1 : 17 | 0.76

2 : 6 | 0.60

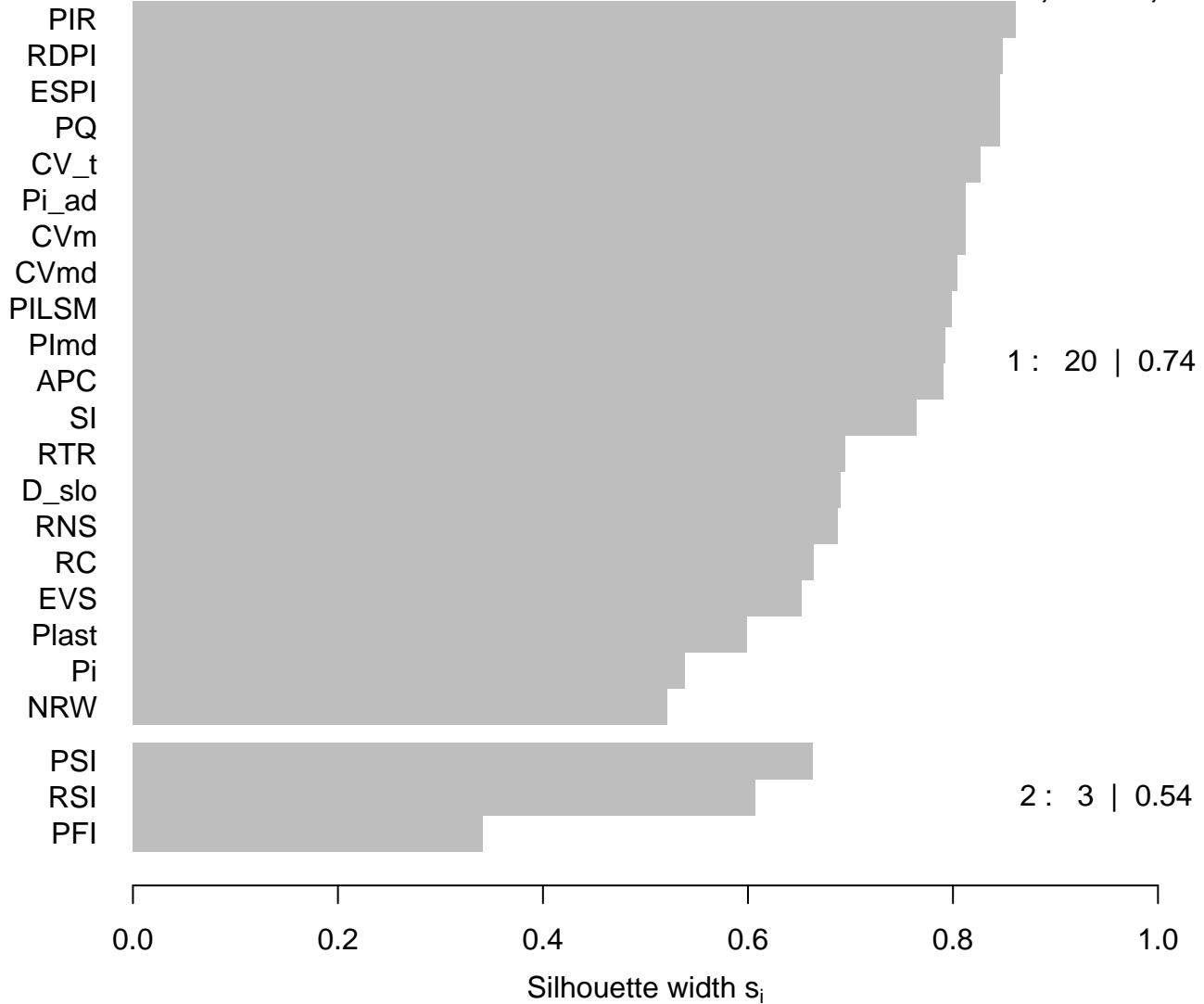


Average silhouette width : 0.72

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



Average silhouette width : 0.72

## Silhouette Plot for Best Clustering – Dataset lognormal – Trait 2

n = 23

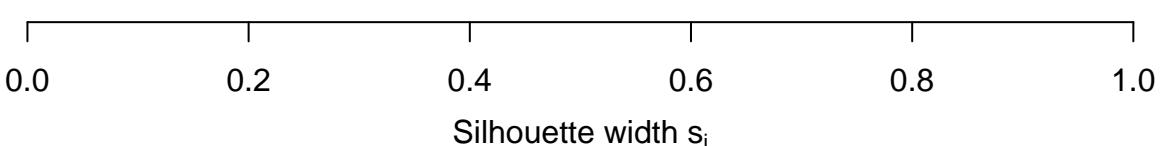
2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

CVm  
Pi\_ad  
PILSM  
CVmd  
Plast  
PIR  
Plmd  
ESPI  
PQ  
APC  
CV\_t  
RDPI  
Pi

1 : 13 | 0.63

RSI  
RTR  
PFI  
EVS  
RC  
SI  
PSI  
NRW  
D\_slo  
RNS

2 : 10 | 0.25

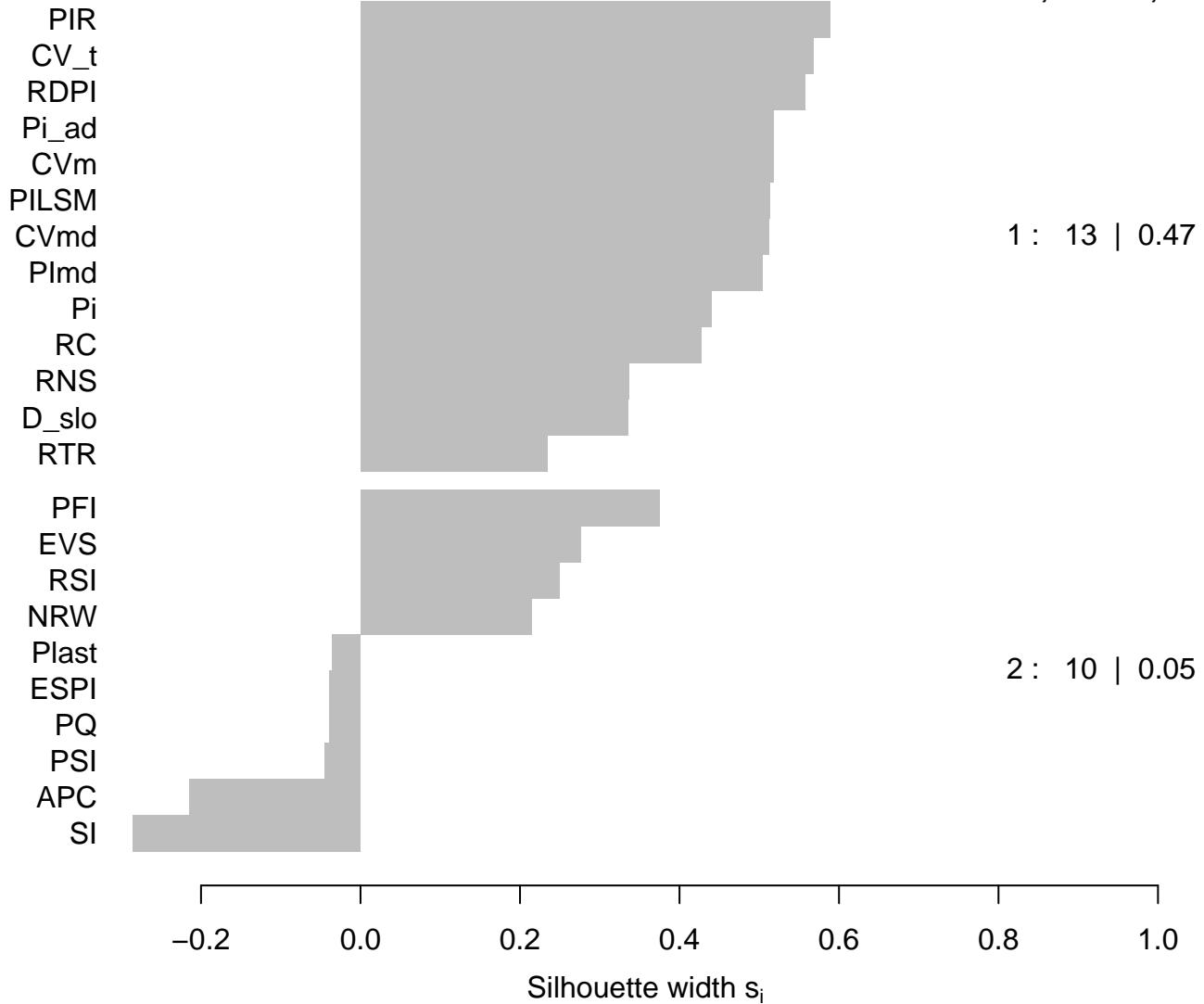


Average silhouette width : 0.47

## Silhouette Plot for Best Clustering – Dataset non – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

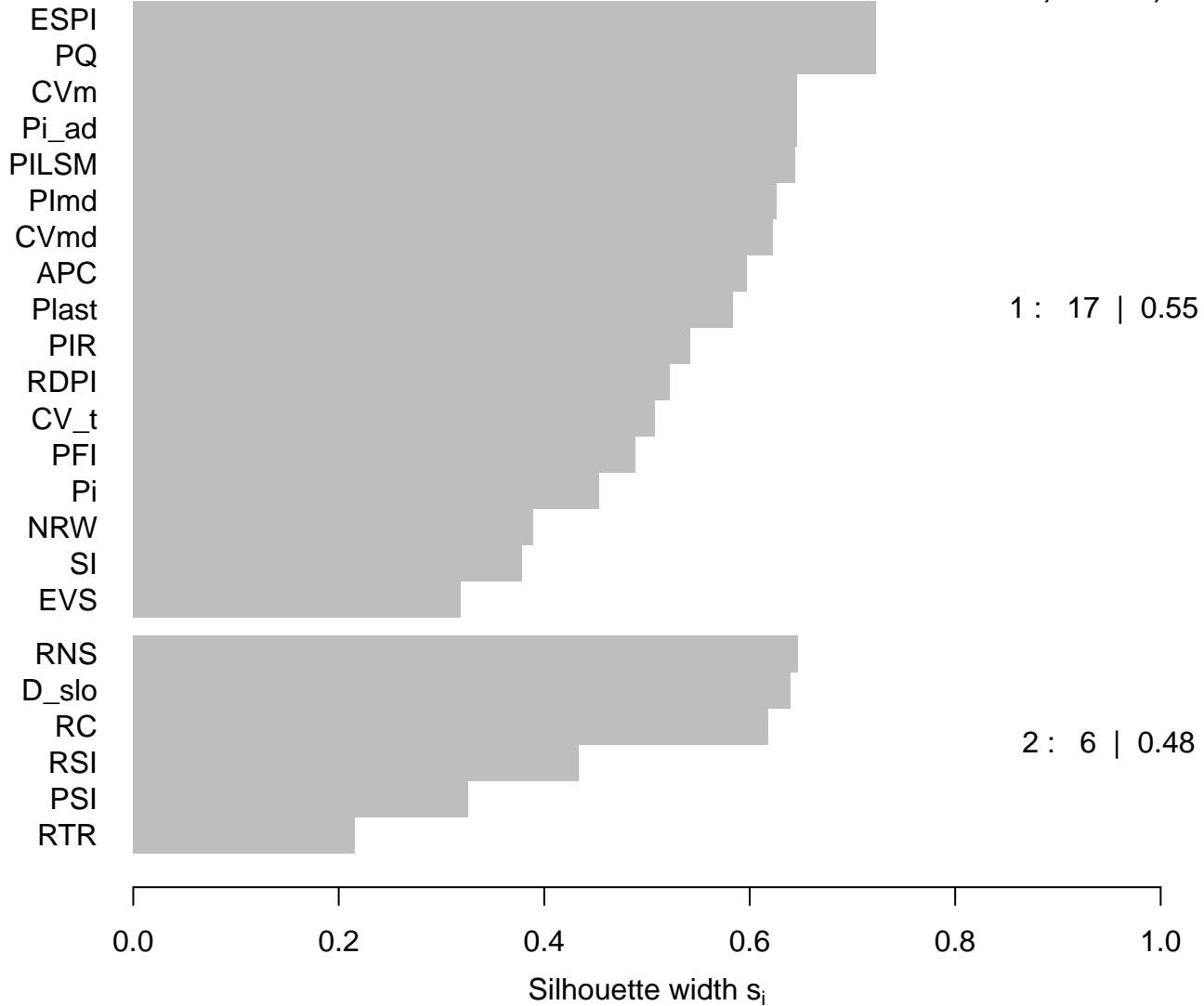


Average silhouette width : 0.28

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 2

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$

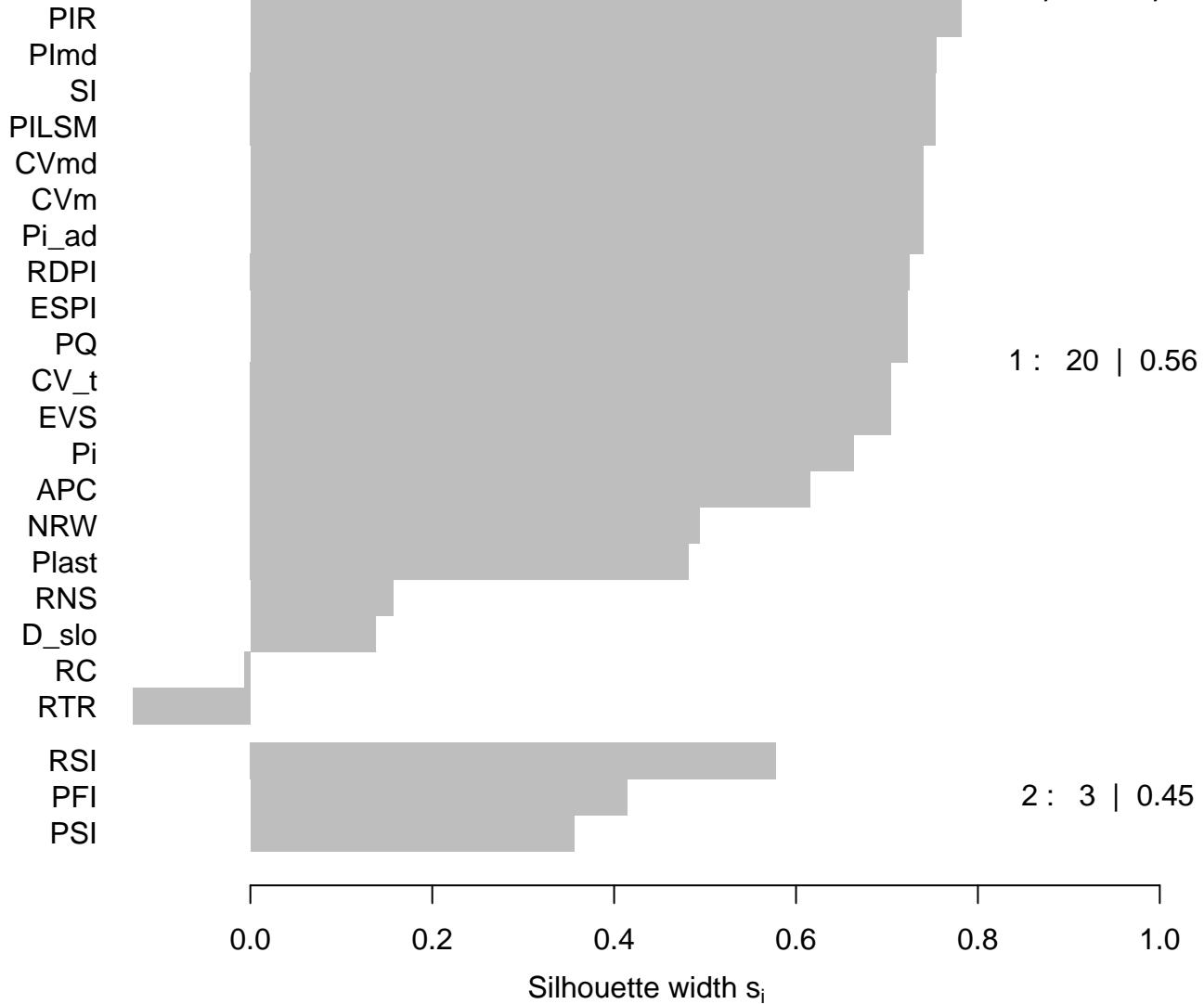


Average silhouette width : 0.53

## Silhouette Plot for Best Clustering – Dataset non – Trait 3

n = 23

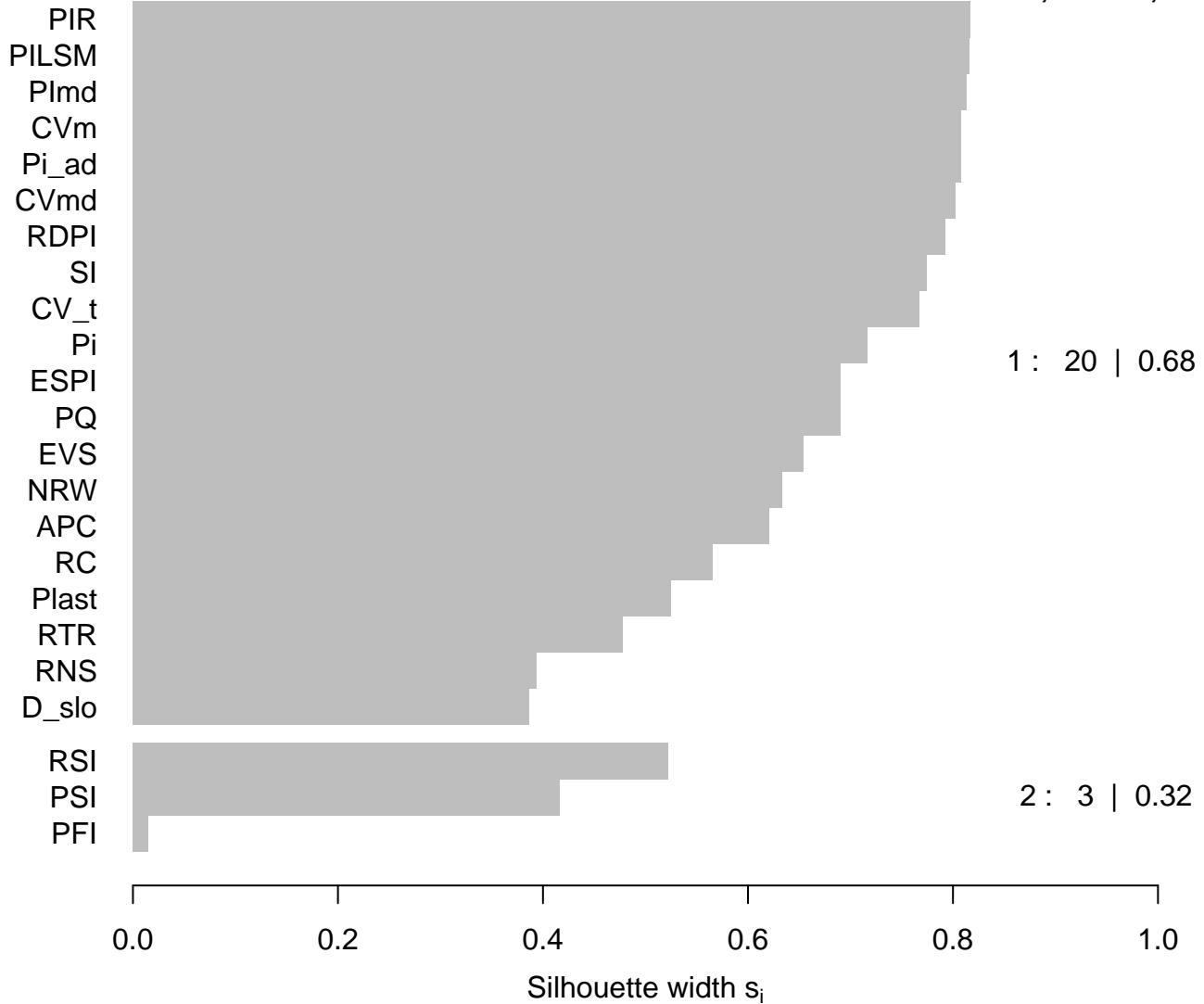
2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



## Silhouette Plot for Best Clustering – Dataset non – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



## Silhouette Plot for Best Clustering – Dataset non – Trait 3

n = 23

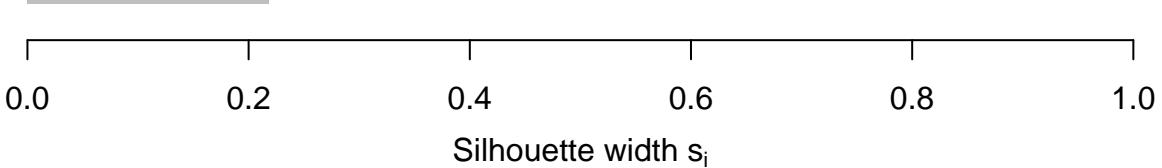
2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$

CVm  
Pi\_ad  
CVmd  
PILSM  
Plmd  
PIR  
SI  
RDPI  
ESPI  
PQ  
CV\_t  
APC  
EVS  
Pi  
Plast  
RTR  
NRW

RNS  
RSI  
D\_slo  
RC  
PSI  
PFI

1 : 17 | 0.72

2 : 6 | 0.53

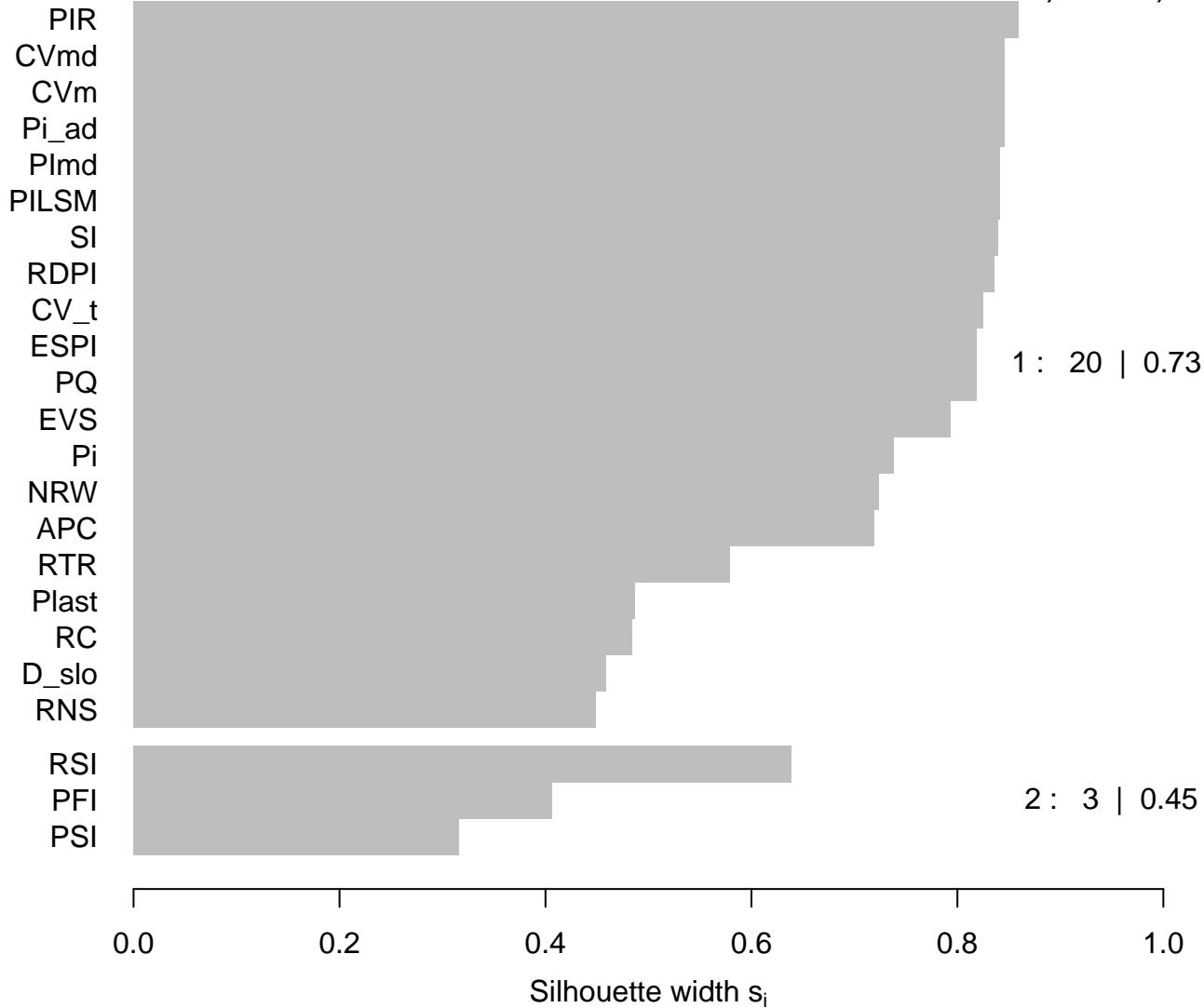


Average silhouette width : 0.67

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$



Average silhouette width : 0.7

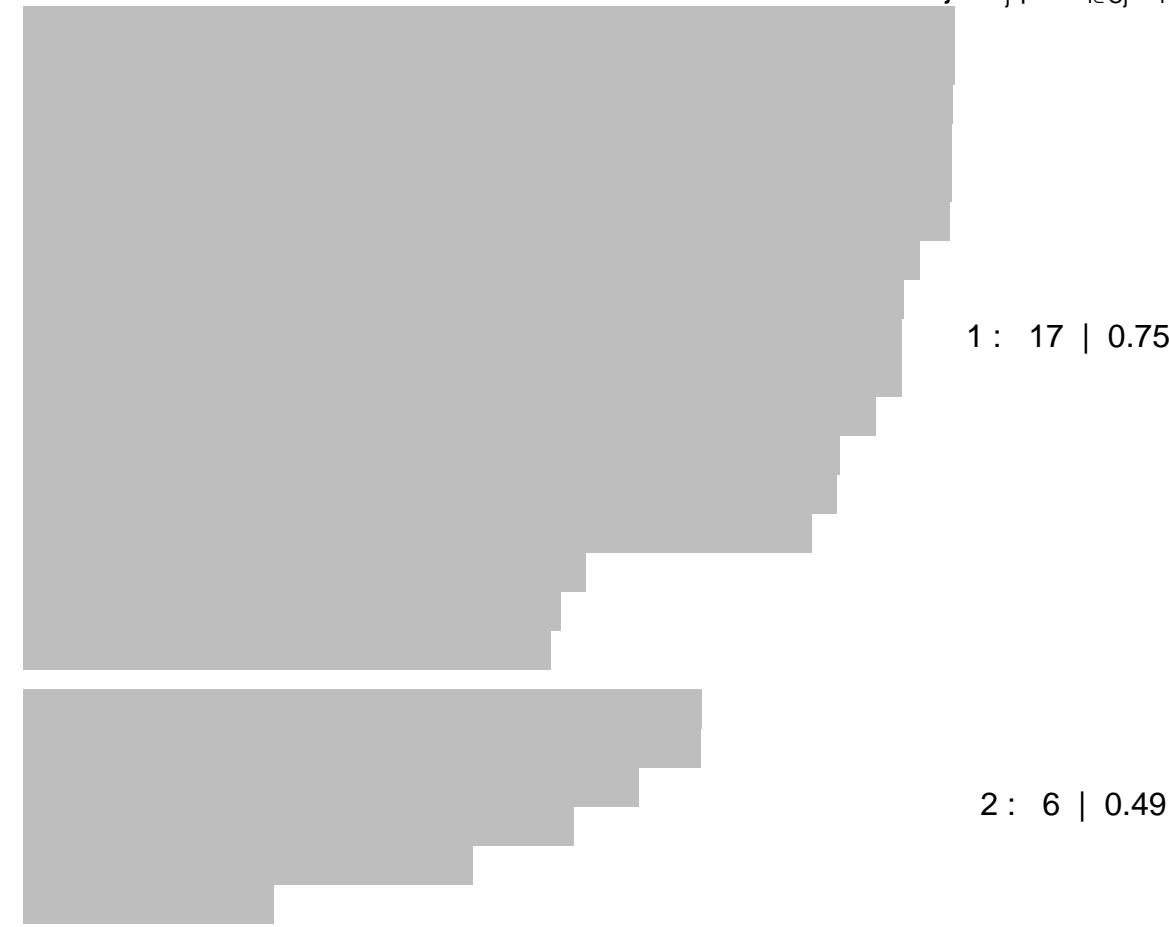
## Silhouette Plot for Best Clustering – Dataset non – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

CVm  
Pi\_ad  
CVmd  
Plmd  
PILSM  
SI  
RDPI  
EVS  
ESPI  
PQ  
PIR  
CV\_t  
NRW  
APC  
PFI  
Plast  
Pi

RNS  
D\_slo  
RC  
RSI  
PSI  
RTR

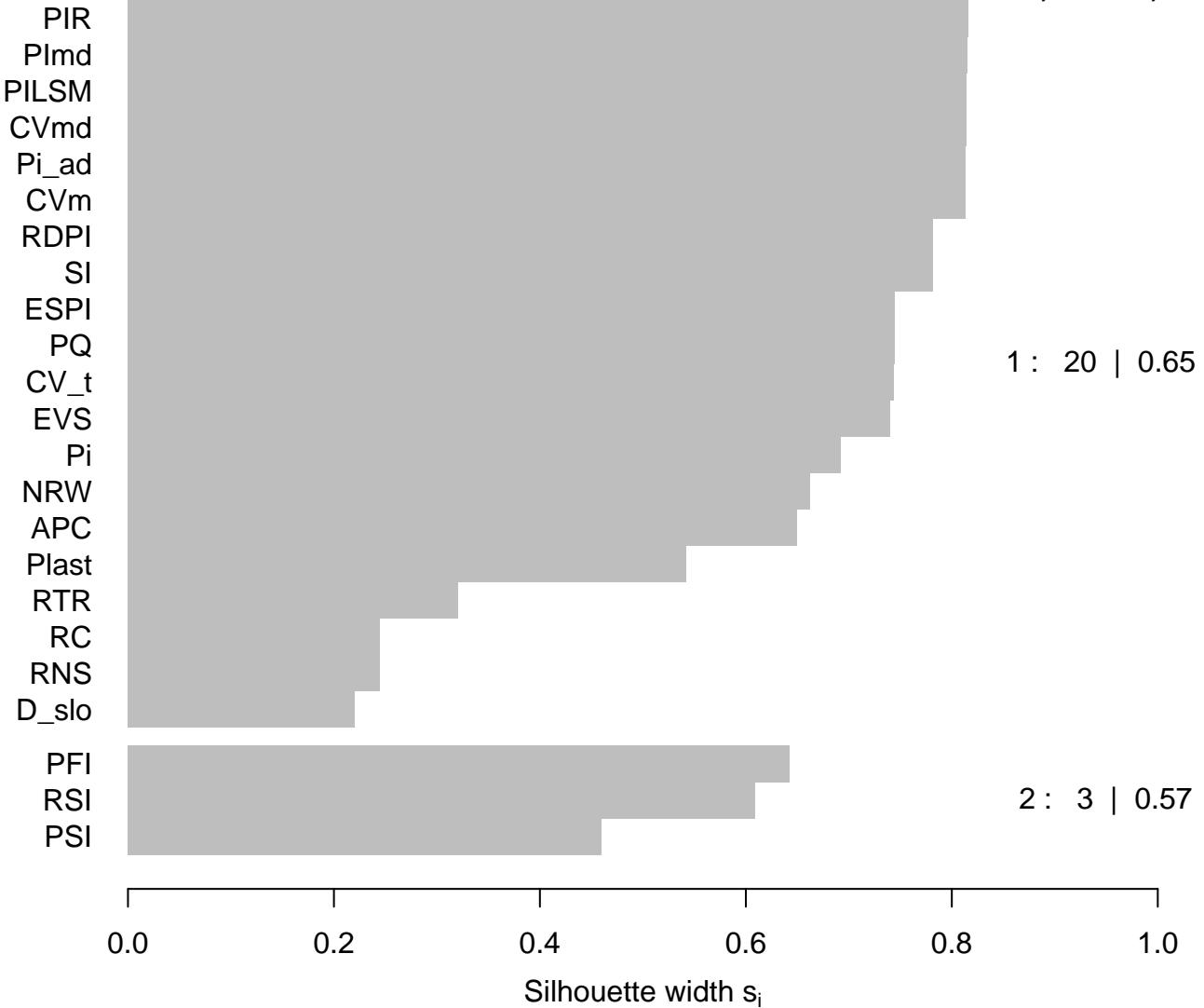


Average silhouette width : 0.68

## Silhouette Plot for Best Clustering – Dataset non – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

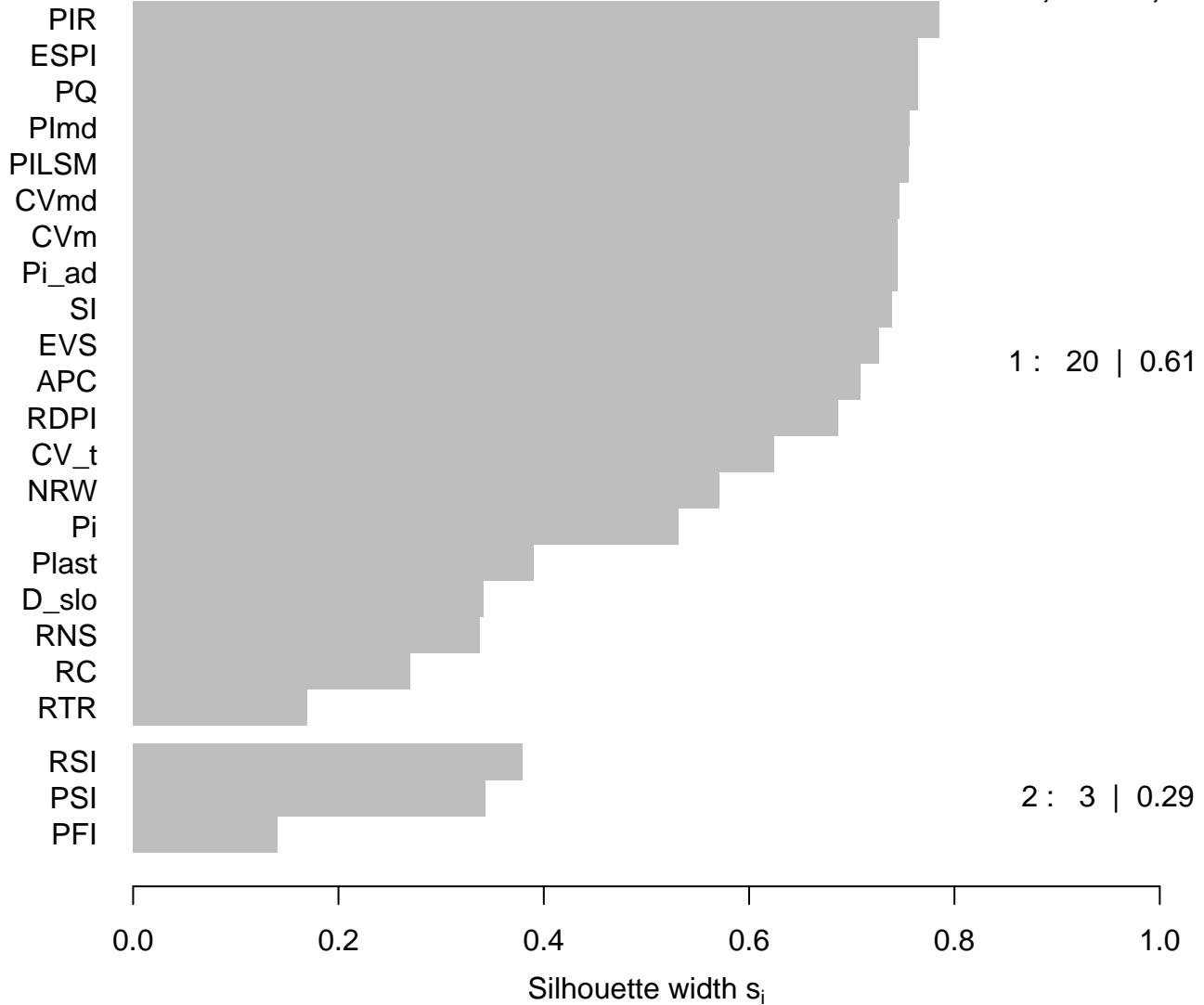


Average silhouette width : 0.64

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | ave_{i \in C_j} s_i$

PILSM

PIR

Plmd

CVm

Pi\_ad

CVmd

RDPI

CV\_t

SI

ESPI

PQ

Pi

EVS

RTR

APC

RC

Plast

D\_slo

RNS

NRW

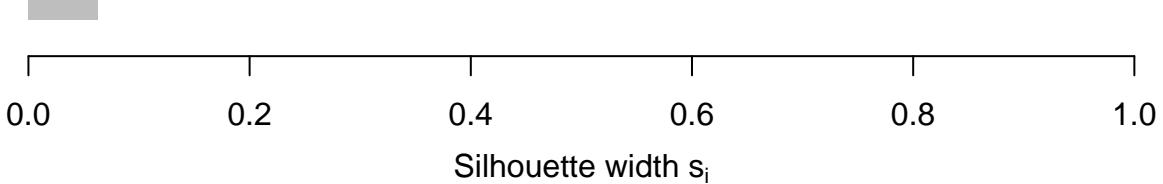
RSI

PFI

PSI

1 : 20 | 0.66

2 : 3 | 0.33

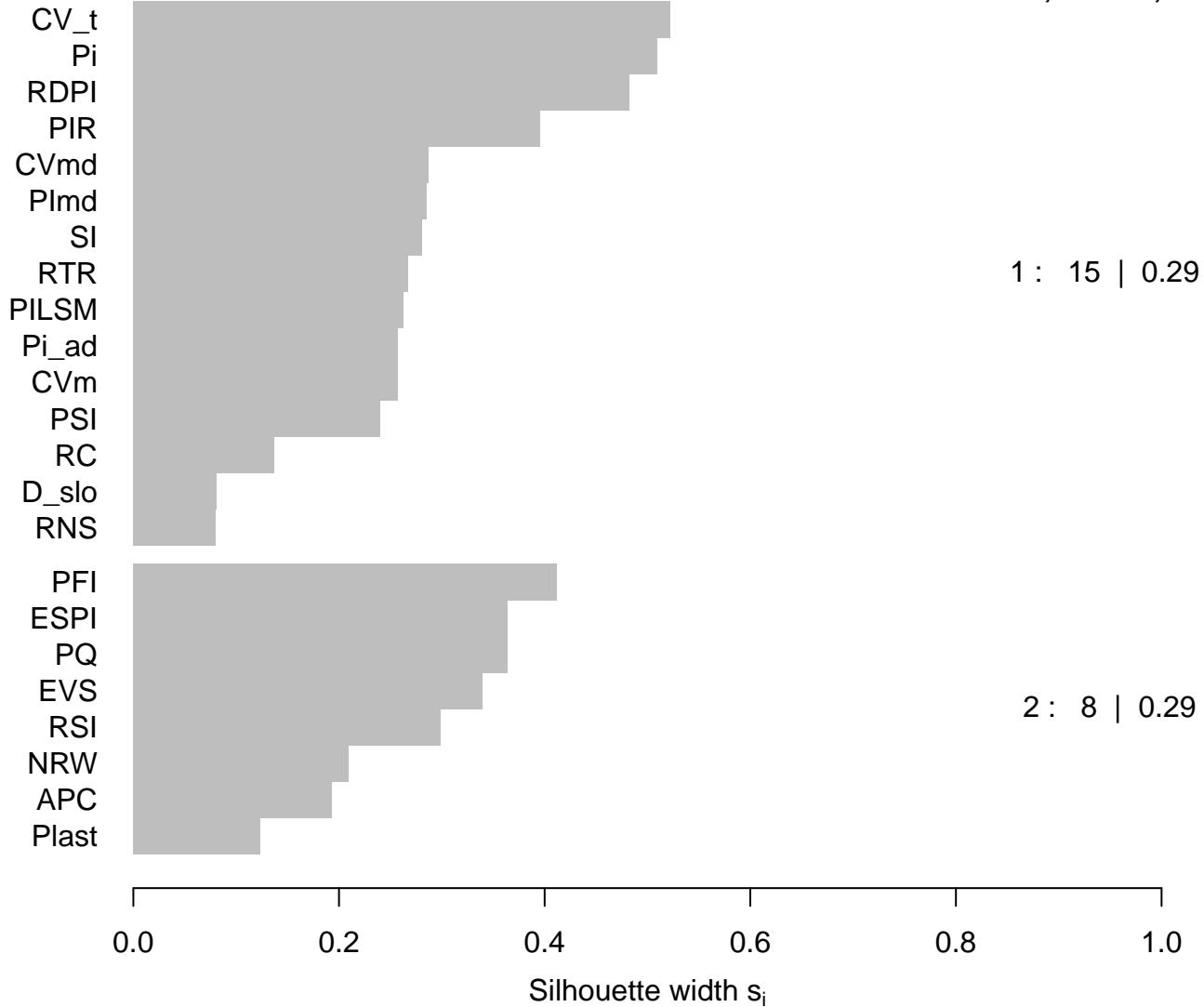


Average silhouette width : 0.62

## Silhouette Plot for Best Clustering – Dataset non – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$

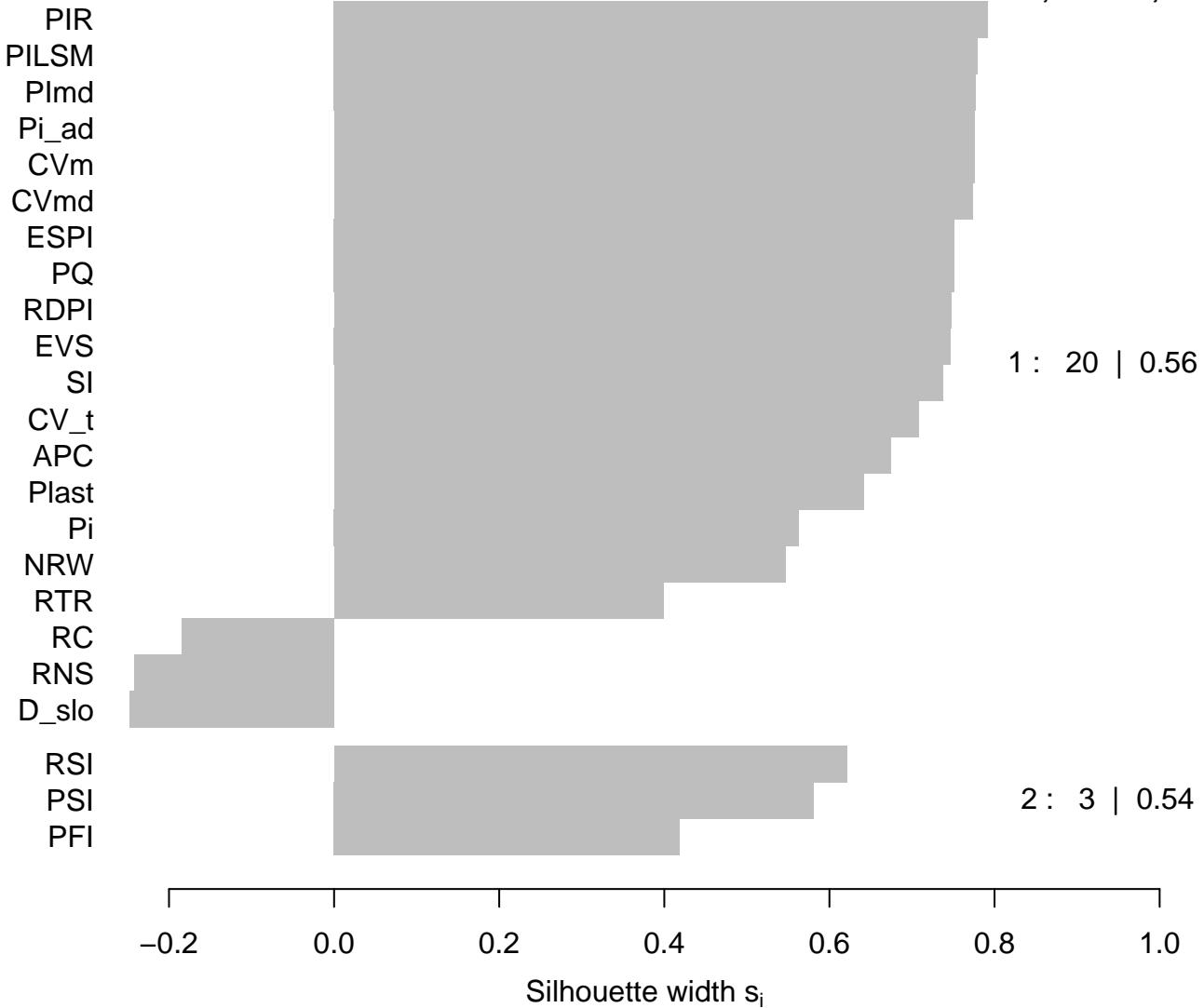


Average silhouette width : 0.29

# Silhouette Plot for Best Clustering – Dataset lognormal – Trait 3

n = 23

2 clusters  $C_j$   
 $j : n_j | \text{ave}_{i \in C_j} s_i$



Average silhouette width : 0.56